



MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Tischler Und Sohn (USA) Ltd.
Six Suburban Avenue
Stamford, Ct. 06901

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Tischler series Inswing glazed Wood Doors-L.M. Impact

APPROVAL DOCUMENT: Drawing No.1601 REV A, titled "In-Swing Impact Wood Doors", sheets 1 through 19 of 19, dated 10/08/08 and last revised on OCT 27, 2011, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

Limitation:

1. MDF material: Medite Exterior MDF panel EN 622 Type MDF-H2
2. For reinforcement requirements see sheet 10 thru 13, glass & partial raised panel options on sheet 17.
3. Lower design pressure shall control when doors mulled with Tischler's sidelites or transom.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Kall/Eifel, Germany and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 09-0212.05 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY
APPROVED

NOA No 11-1101.13
Expiration Date: May 27, 2014
Approval Date: January 05, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS (transferred from file # 09-0212.05)

1. Manufacturer's die drawings and sections.
2. Drawing No. **1601 REV A**, titled "In-Swing Impact Wood Doors", sheets 1 through 19 of 19, dated 10/08/08 and last revised on OCT 27, 2011, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E.

(Note: The revision consist of compliance to FBC 2010 only)

B. TESTS (transferred from file # 09-0212.05)

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with installation diagram of Single & Double Inswing /Outswing, Tilt/Turn Mahogany Wood French doors w/wo Sidelite & Transom, w/ MDF & wood Veneered Panels and different shapes top, prepared by Architectural Testing, Test Report(s) No. **ATI 77326.01-109-18**, dated 02/03/09 and **ATI 77327.01-109-18**, dated 02/202/09, both signed and sealed by Michael D. Stremmel, P.E.

2. Additional test report: ATI 77324.01-109.18 (specimen A3-1 & A3-7) issued by Architectural Testing per TAS 201, 202 and 203-94.

C. CALCULATIONS

1. Statement letters of conformance to FBC 2010, dated OCT 28, 2011, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P.E.
2. Anchor calculations and structural analysis complying w/ FBC 2007 dated 02/09/09 and 04-22-09, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed & sealed by Warren Schaefer, P.E. (transferred from file # **09-0212.05**)
3. Glazing complies with ASTM E-1300-02 &-04

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

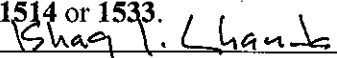
1. Notice of Acceptance No. **08-1224.04** issued to Solutia, for "Saflex Composite Glass Interlayer w/ PET", expiring on 12/11/2013.
2. Notice of Acceptance No. **11-0325.05** issued to Solutia Inc. for "Saflex Clear or colored interlayer", expiring on May 21, 2016.
3. Test report No. ATI-86006.01-106-18 (Rev 2) dated 12/12/08 and ATI-86006.02-106-18 02/05/09 for "Durability of Wood-Based Composite Lumber and panels" per ASTM ASTM D-1761 and ASTM D-4761, issued by Architectural Testing Lab.

F. STATEMENTS

1. Statement letters of conformance to FBC 2010, dated OCT 28, 2011 and "No financial interest dated OCT 24, 2011, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P.E.
2. E-mail statement dated 03/31/09, issued by Michael D. Stremmel, P.E. of Architectural testing in reference to low sill, water infiltration test.

G. OTHER

1. This NOA revises NOA # **09-0212.05**, expiring 05/27/14.
2. Test proposal # **07-3533** dated Oct 22, 2007, approved by BCCO.
3. Distribution agreement between Tishler Und Sohn (USA) and Tishler/Cornelius Korn GmbH, Germany, signed by Tim Carpenter & Wilhem Korn, respectively.
4. Tishler's Fixed Casement windows NOA(s) w/ Drawing No. **1514** or **1533**.


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 11-1101.13
Expiration Date: May 27, 2014
Approval Date: January 05, 2012

LOCK STRIKE REQUIREMENTS (TOP OF PANEL)	
PANEL WIDTH	QUANTITY PER PANEL
RECTANGULAR PANEL	
ALL WIDTHS	2
ARCH & ROUND TOP PANEL	
OVER 32"	3
28" TO 32"	2

(1) LOCK STRIKE REQUIREMENTS (BOTTOM OF PANEL)	
PANEL WIDTH	QUANTITY PER PANEL
ALL PANEL SHAPES	
ALL WIDTHS	2
(1) WHEN ADA SILL IS USED WITH DOUBLE DOORS, ONLY THE KVF LOCK SYSTEM MAY BE USED. WHEN ADA SILL IS USED WITH A SINGLE DOOR, BOTH THE KVF & SIEGENIA LOCK SYSTEMS APPLY BUT DO NOT REQUIRE SILL STRIKES.	

LOCK STRIKE REQUIREMENTS (LOCK SIDE OF PANEL)	
(1) PANEL HEIGHT	QUANTITY PER PANEL
ALL PANEL SHAPES	
OVER 96"	4
76" TO 96"	3
(1) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS	

(1) LOCK STRIKE REQUIREMENTS (HINGE SIDE OF TILT-TURN DOORS)	
(2) PANEL HEIGHT	QUANTITY PER PANEL
ALL PANEL SHAPES	
ALL HEIGHTS	3
(1) WHEN DOOR IS TILT-TURN, ONLY 2 HINGES ARE USED COMBINED WITH LOCK POINTS. WHEN DOOR IS SWING ONLY, ONLY HINGES EXIST.	
(2) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS	

HINGE REQUIREMENTS	
(1) PANEL HEIGHT	QUANTITY PER PANEL
POT HINGES	
OVER 99"	5
76" TO 99"	4
SCREWED-IN HINGES	
OVER 99"	5
76" TO 99"	4

(1) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS

HINGE REQUIREMENTS (TILT-TURN DOORS)	
2 PER DOOR (ALL SIZES OF ALL DOORS)	

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF DOORS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

FRAME ANCHOR REQUIREMENTS TABLE			
OPENING TYPE (SUBSTRATE)	FRAME/SILL/CLIP/BACKET TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME/SILL SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 14 SMS/WOOD SCREW OR 1/4" BTI SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2) 1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 12 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2) 12-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 12-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 12-14 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
BTI BRACKET SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
ANGLE CLIP SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/4"	2"
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).			
(2) ALL SELF TAP/DRILLING SCREWS SHALL BE MIN. GR. 5			

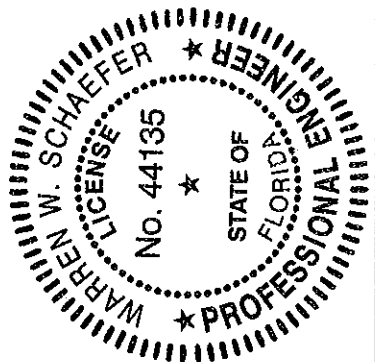
PANEL WIDTH DIMENSIONS ARE APPROXIMATELY 3" LESS THAN THE FRAME WIDTH & PANEL HEIGHT DIMENSIONS ARE APPROXIMATELY 1 3/4" LESS THAN THE FRAME HEIGHT

ALLOWABLE DESIGN PRESSURE (SINGLE & DOUBLE OPERABLE DOORS)			
MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
SINGLE DOOR			
51 1/8	120	(2) 70	(2) 70
41 1/4	99	70	(1) 85
DOUBLE DOOR			
79 1/16	120	70	70
79 1/16	99	70	(1) (3) 85
(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED & WITH STANDARD SILL (USE OF ADA SILL IS NOT APPLICABLE TO UNITS WITH PRESSURE EXCEEDING +/-70 PSF).			
(2) WITH FULL SIZE SINGLE DOORS USING GLASS OPTION 4, ALLOWABLE PRESSURE MUST BE REDUCED TO +/-65 PSF. PRESSURE MAY BE INCREASED TO +/-70 PSF IF THE D.L.O. WIDTH IS DECREASED TO MAX. 38.5" OR THE D.L.O. HEIGHT IS DECREASED TO MAX. 98".			
(3) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WITH DOUBLE DOORS WHEN THE DOUBLE DOOR MEETING STILES ARE BAR REINFORCED (REF. SECTIONS).			

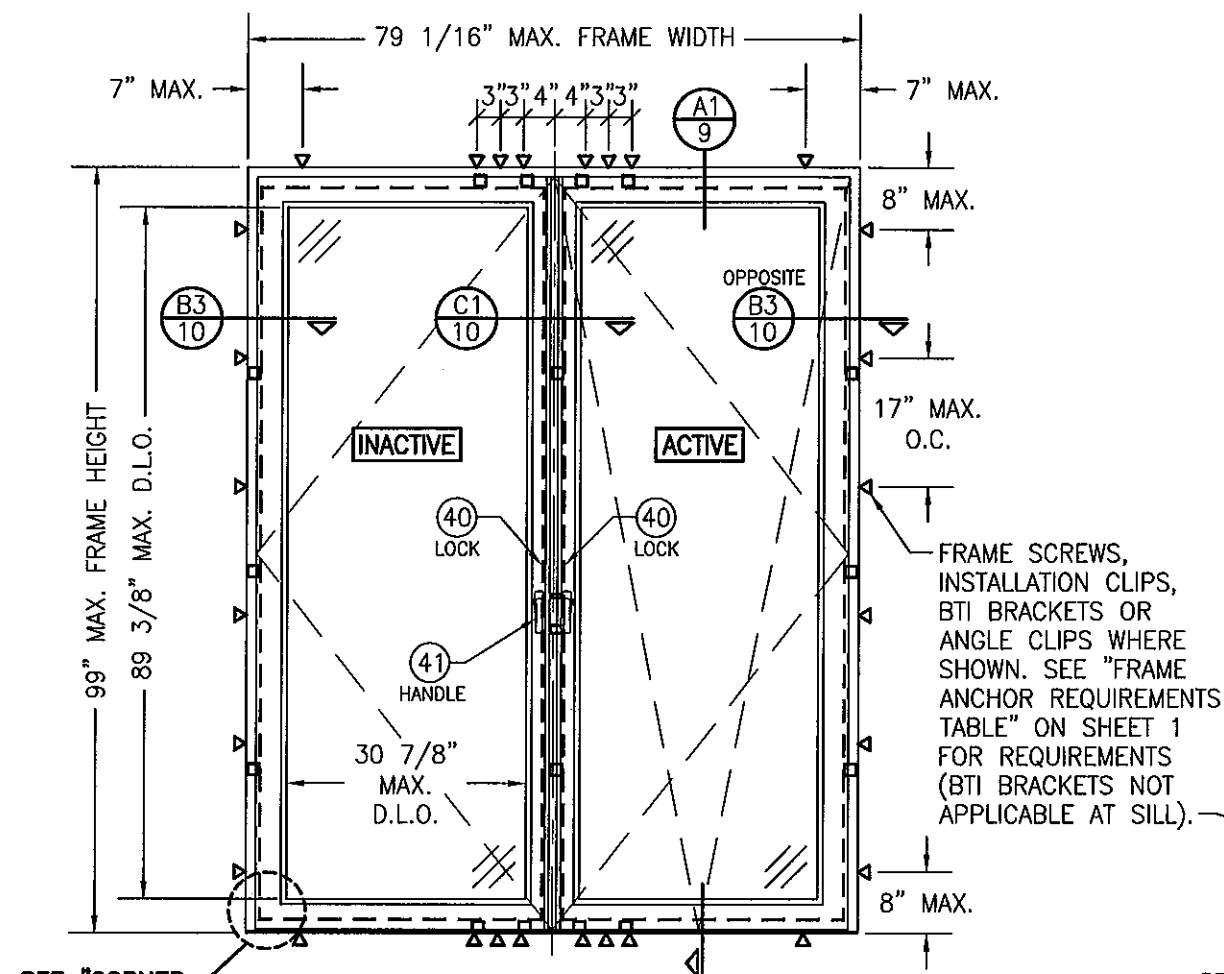
CORNER CONSTRUCTION:

RECTANGULAR FRAME CORNERS: MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
ARCHED FRAME CORNERS: ARCHED FRAME BUTTED TO STRAIGHT FRAME, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
HALF ROUND FRAME CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
RECTANGULAR PANEL CORNERS:
OPTION 1 (USED WITH STILE & RAIL CONDITIONS WHERE MEMBERS ARE 4.250" OR LESS IN OVERALL HEIGHT): MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
OPTION 2 (USED WITH STILE & RAIL CONDITIONS WHERE MEMBERS ARE GREATER THAN 4.250" IN OVERALL HEIGHT): MEMBERS ARE SQUARE CUT, BUTTED, JOINED WITH FIVE(5) #5/16 X 2" WOOD DOWELS, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
ARCHED PANEL CORNERS: ARCHED RAIL BUTTED TO STRAIGHT STILE, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
HALF ROUND PANEL CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
SILL CORNERS:
ALL SILL CONDITIONS: SILL IS BUTTED TO THE JAMBS & JOINED WITH THREE(3) NO.6 X 2" WOOD SCREWS & SEALED WITH SEALANT.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1101-13
Expiration Date 05/27/2014
By: [Signature]
Miami Dade Product Control

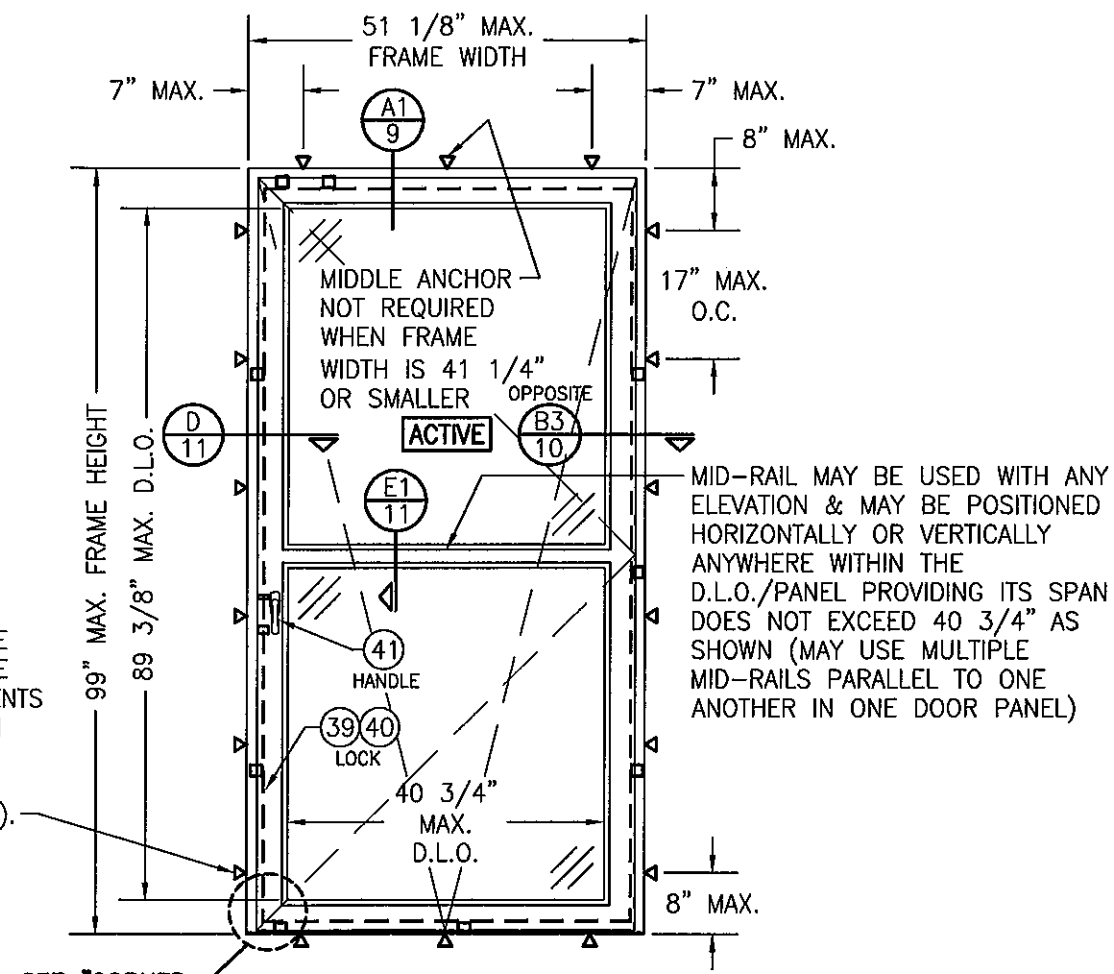


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 10/08/08
DATE 10/25/11	
BY W.R.M.	
REVISION DESCRIPTION	
NO. A1	UPDATE TO CURRENT STANDARDS
DRAWING TITLE IN-SWING IMPACT WOOD DOORS	
MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424	
CERTIFICATION OCT 27 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1601	REV. A
SHEET NO. 1 OF 19	



INTERIOR ELEVATION:
DOUBLE RECTANGULAR DOOR
(TURN & TILT CONDITION)

SCALE: 1/2" = 1'-0"



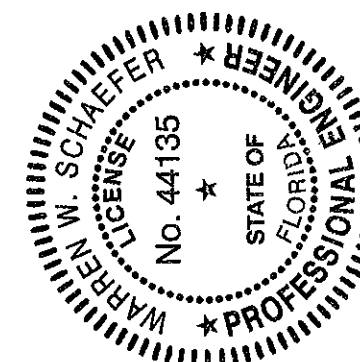
INTERIOR ELEVATION:
SINGLE RECTANGULAR DOOR
(TURN & TILT CONDITION)

SCALE: 1/2" = 1'-0"

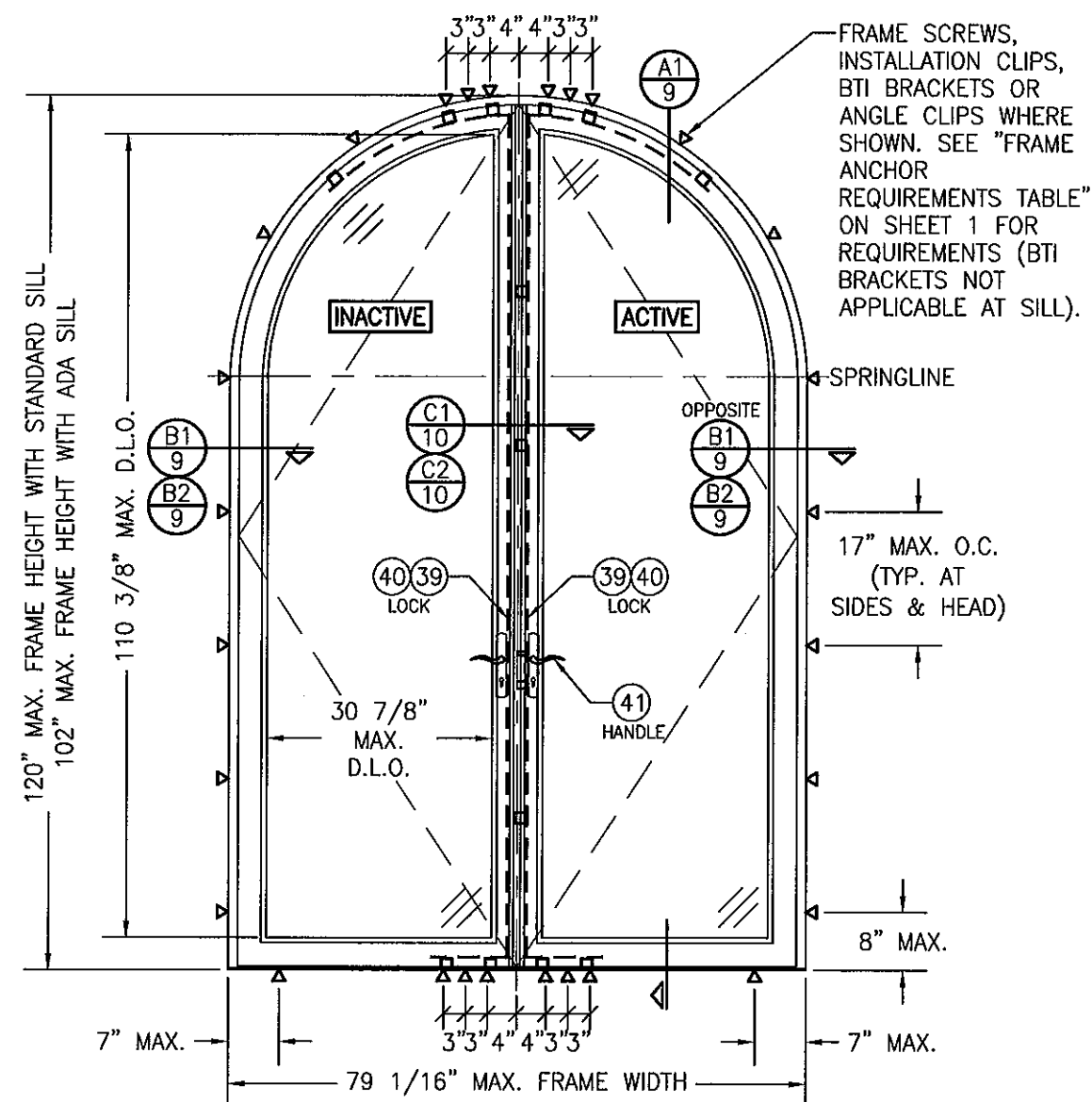
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1101-13
Expiration Date 5/27/14
By: Ismael J. Chant
Miami Dade Product Control

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1

DUE TO HINGE CONDITION VARIATIONS,
HINGES ARE NOT SHOWN IN ELEVATIONS,
SEE SECTIONS & HINGE TABLES FOR
HINGE REQUIREMENTS

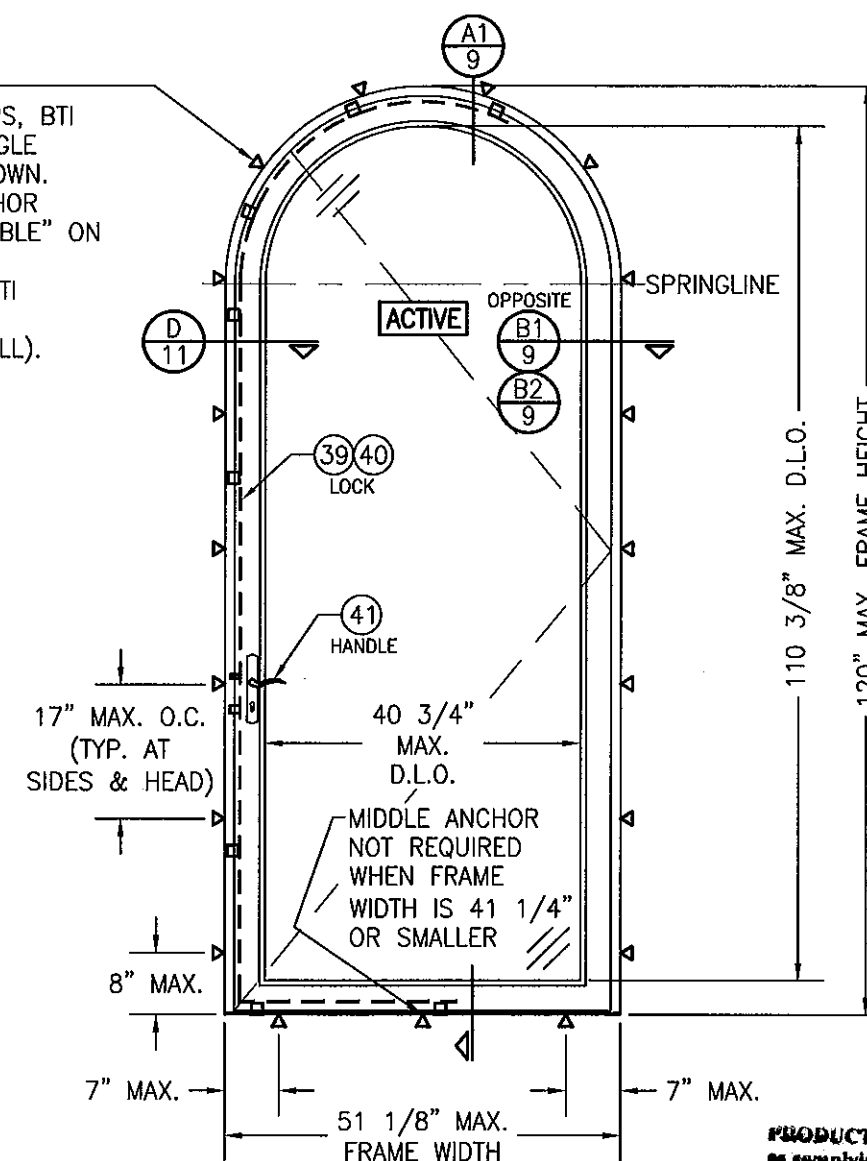


DRAWING BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 10/08/08	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE IN-SWING IMPACT WOOD DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424		MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CERTIFICATION OCT 27 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1601	
SHEET NO. 3 OF 19		REV. A	



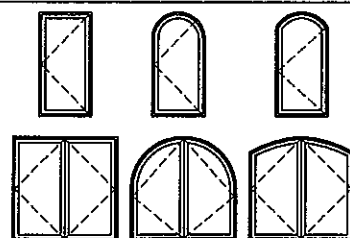
—FRAME SCREWS,
INSTALLATION CLIPS,
BTI BRACKETS OR
ANGLE CLIPS WHERE
SHOWN. SEE "FRAME
ANCHOR
REQUIREMENTS TABLE"
ON SHEET 1 FOR
REQUIREMENTS (BTI
BRACKETS NOT
APPLICABLE AT SILL).

FRAME SCREWS, _____
INSTALLATION CLIPS, BTI
BRACKETS OR ANGLE
CLIPS WHERE SHOWN.
SEE "FRAME ANCHOR
REQUIREMENTS TABLE" ON
SHEET 1 FOR
REQUIREMENTS (BTI
BRACKETS NOT
APPLICABLE AT SILL).



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1101.13
Expiration Date 5/27/14
By: [Signature]
Inspector/Date/Project Control

APPROVED SHAPED
(OPERABLE DOORS)



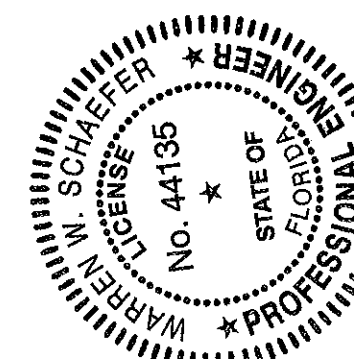
INTERIOR ELEVATION:
DOUBLE HALF ROUND DOOR
(TURN ONLY CONDITION)

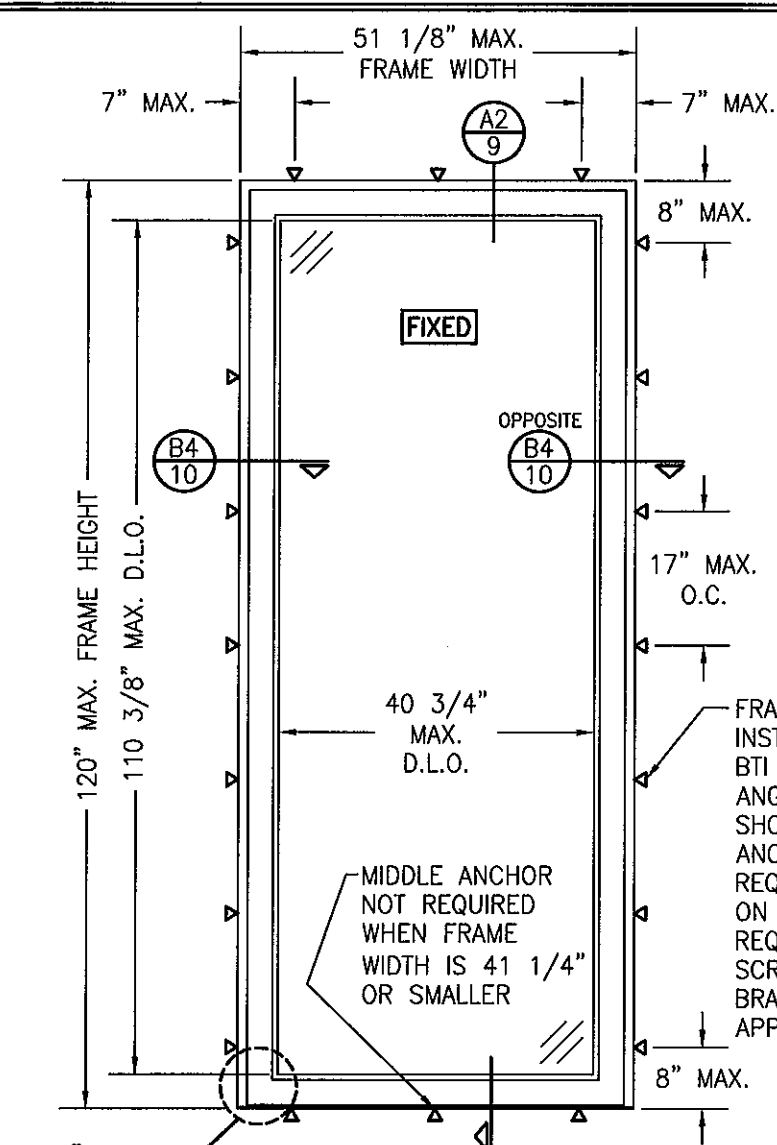
SCALE: 1/2" = 1'-0"

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1

DUE TO HINGE CONDITION VARIATIONS,
HINGES ARE NOT SHOWN IN ELEVATIONS,
SEE SECTIONS & HINGE TABLES FOR
HINGE REQUIREMENTS

ANCHOR NOTE: ANCHOR SPACING AT THE HEAD OF ALL TYPES OF SHAPED DOORS MUST EQUAL THAT SPECIFIED AT THE SIDES (17" MAX. O.C.)

[illegible]



SEE "CORNER CONSTRUCTION" DESCRIPTION ON SHEET 1

**INTERIOR ELEVATION:
SINGLE FIXED PANEL**

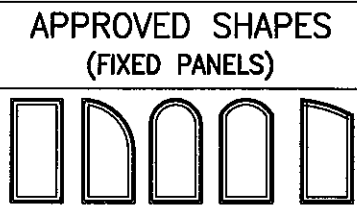
SCALE: 1/2" = 1'-0"

(RECTANGULAR FIXED DOOR SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON THIS SHEET)

ALLOWABLE DESIGN PRESSURE (SINGLE FIXED PANELS)			
MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	120	(2) 70	(2) 70
51 11/16	99	70	(1) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTIONS 2 & 5 ARE USED.

(2) WITH FULL SIZE FIXED DOORS USING GLASS OPTION 4, ALLOWABLE PRESSURE MUST BE REDUCED TO +/-65 PSF. PRESSURE MAY BE INCREASED TO +/-70 PSF IF THE D.L.O. WIDTH IS DECREASED TO MAX. 38.5" OR THE D.L.O. HEIGHT IS DECREASED TO MAX. 98".

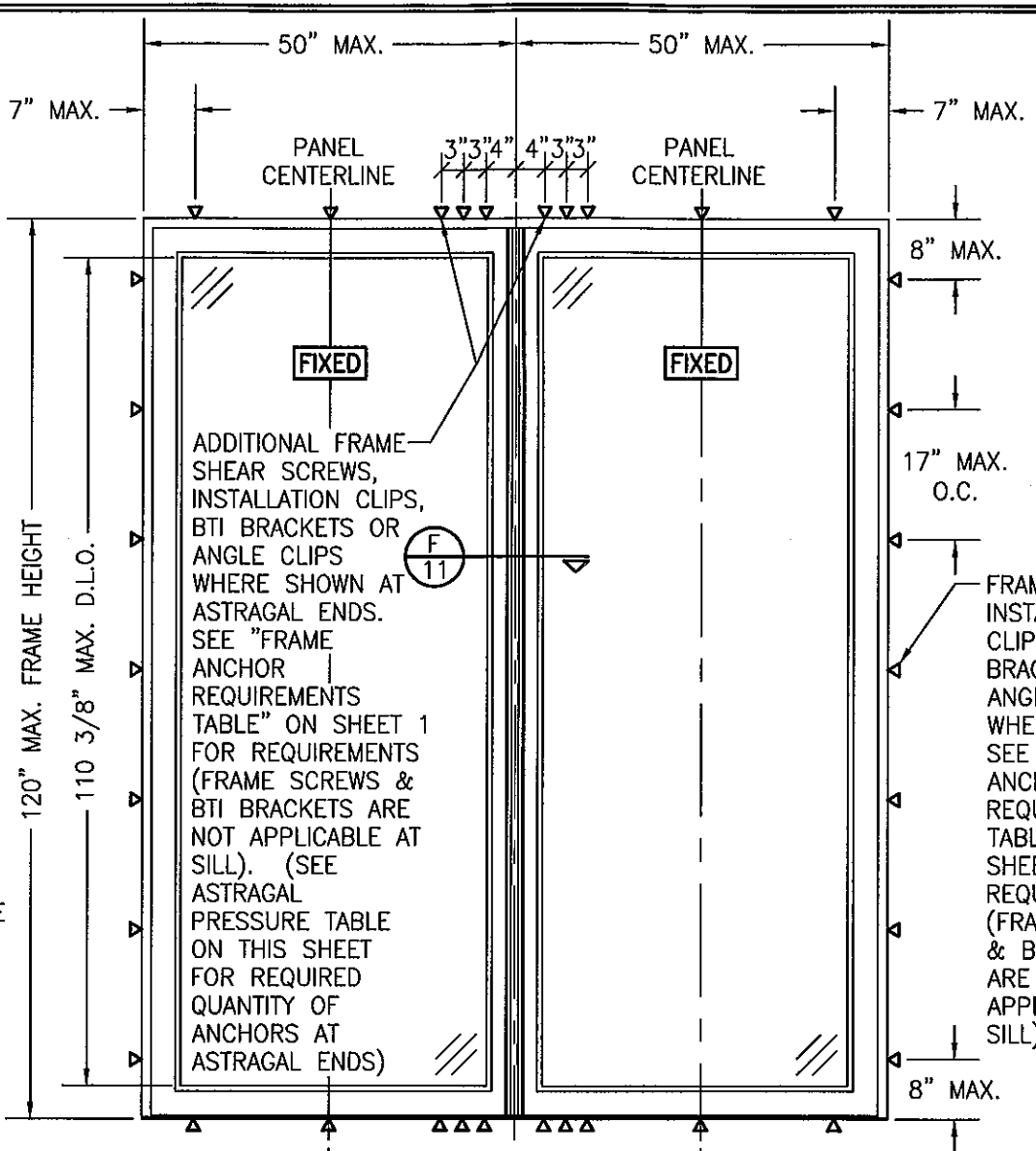


NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.

2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

3. THE SHAPES SHOWN APPLY TO SINGLE FIXED PANELS AND THE PANELS ON EITHER SIDE OF A FIXED ASTRAGAL.



FOR MAX. LOAD WIDTH, SEE ASTRAGAL PRESSURE TABLE ON THIS SHEET

**INTERIOR ELEVATION:
DOUBLE FIXED PANEL WITH FIXED ASTRAGAL**

SCALE: 1/2" = 1'-0"

SEE SINGLE FIXED PANEL ELEVATION FOR DETAIL NOT SHOWN

ANCHOR NOTE: ANCHOR SPACING AT THE HEAD OF ALL TYPES OF SHAPED PANEL DOORS MUST EQUAL THAT SPECIFIED AT THE SIDES (17" MAX. O.C.)

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Expiration Date 5/27/14
W. Schaefer
W. Schaefer Engineering & Consulting, P.A.

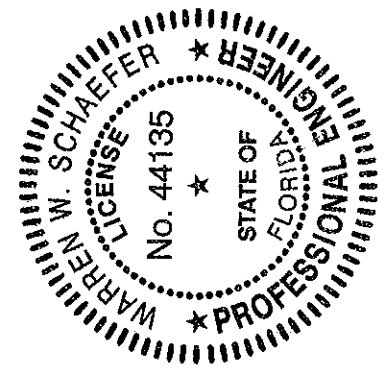
FIXED ASTRAGAL ALLOWABLE DESIGN PRESSURE					
MAXIMUM ASTRAGAL SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)			
		4 END ANCHORS		6 END ANCHORS	
		POS.	NEG.	POS.	NEG.
120	50	51.4	51.4	70.0	70.0
	48	53.5	53.5	70.0	70.0
	44	58.4	58.4	70.0	70.0
	40	64.2	64.2	70.0	70.0
	36	70.0	70.0	70.0	70.0
	32	70.0	70.0	70.0	70.0
	28	70.0	70.0	70.0	70.0
108	50	57.1	57.1	70.0	70.0
	48	59.5	59.5	70.0	70.0
	44	64.9	64.9	70.0	70.0
	40	70.0	70.0	70.0	70.0
	36	70.0	70.0	70.0	70.0
99	50	62.3	62.3	70.0	85.0
	48	64.9	64.9	70.0	85.0
	44	70.0	70.8	70.0	85.0
	40	70.0	77.9	70.0	85.0
	36	70.0	85.0	70.0	85.0
96	50	64.2	64.2	70.0	85.0
	48	66.9	66.9	70.0	85.0
	44	70.0	73.0	70.0	85.0
	40	70.0	80.3	70.0	85.0
	37	70.0	85.0	70.0	85.0
84	50	70.0	73.4	70.0	85.0
	48	70.0	76.5	70.0	85.0
	44	70.0	83.4	70.0	85.0
	43	70.0	85.0	70.0	85.0
80	50	70.0	77.1	70.0	85.0
	48	70.0	80.3	70.0	85.0
	45	70.0	85.0	70.0	85.0

NOTES:

1. LOAD WIDTH IS THE DISTANCE BETWEEN PANEL CENTERLINES.

2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL FIXED PANEL.

3. SIZE VALUES IN TABLE ARE +/-1/4"



DRAWN BY: W.R.M.
PLOT: 1=24
DATE: 10/08/08

CHECKED BY: W.W.S.
DATE: 10/08/08

DATE: 10/08/08

BY: W.R.M.

REVISION: 1

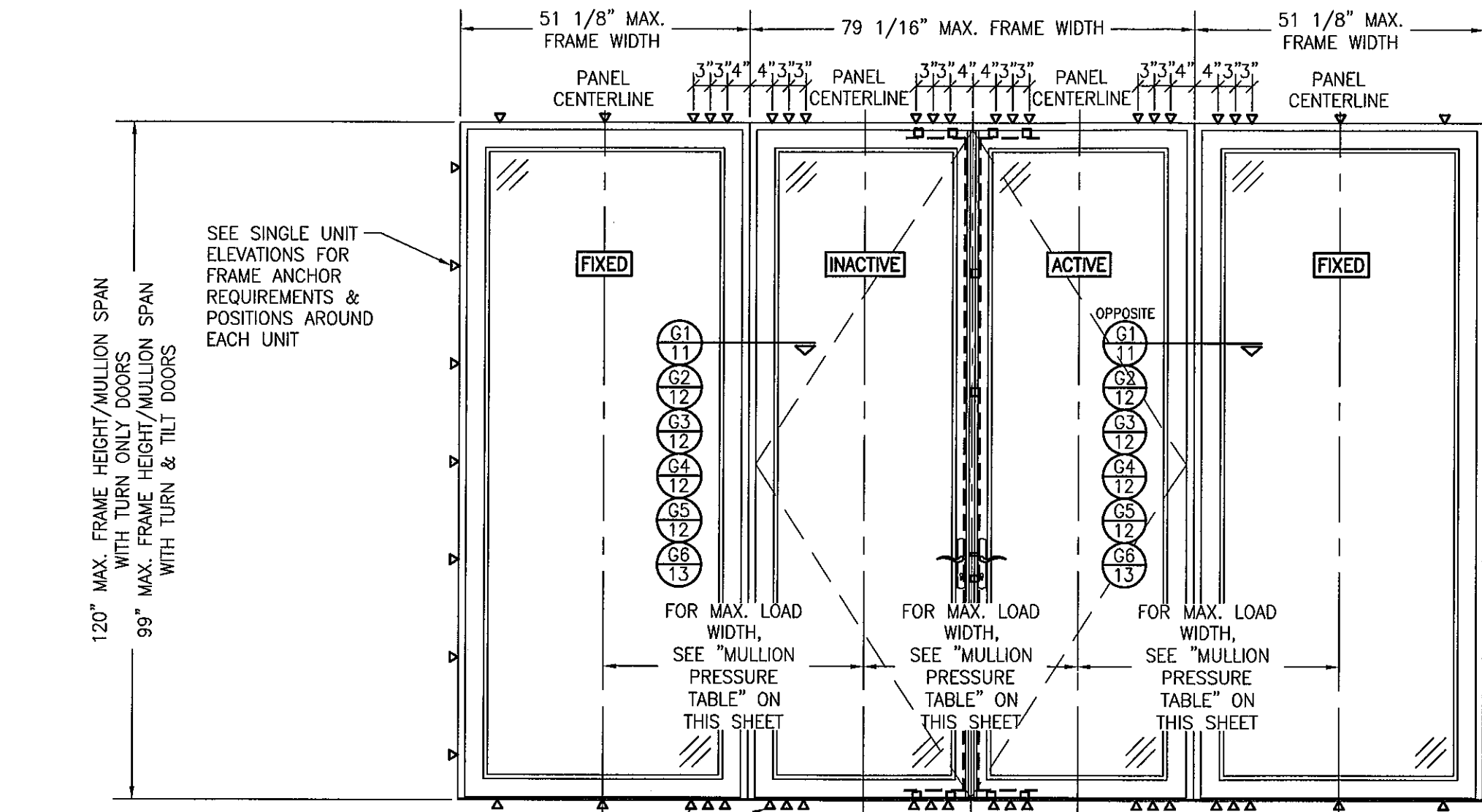
DESCRIPTION: IN-SWING IMPACT WOOD DOORS

MANUFACTURER: TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE 561-744-3424

CERTIFICATION: OCT 27 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1601
SHEET NO. 6 OF 19



SEE SINGLE UNIT ELEVATIONS FOR FRAME ANCHOR REQUIREMENTS & POSITIONS AROUND EACH UNIT

120" MAX. FRAME HEIGHT/MULLION SPAN WITH TURN ONLY DOORS
99" MAX. FRAME HEIGHT/MULLION SPAN WITH TURN & TILT DOORS

ADDITIONAL FRAME SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS (BTI BRACKETS NOT APPLICABLE AT SILL).

FRAME SCREWS ARE NOT APPLICABLE FOR USE WITH FIXED PANEL DOOR SILLS

INTERIOR ELEVATION: DOUBLE DOORS WITH FIXED PANELS

SCALE: 1/2" = 1'-0"
(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPED" TABLE ON SHEETS 4 & 5)

MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
3. OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR/FIXED PANEL SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATIONS.
5. BOTH TURN ONLY & TILT & TURN CONDITIONS APPLY.

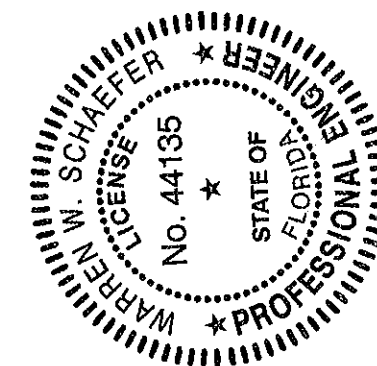
MULLION ALLOWABLE DESIGN PRESSURE

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
120	52	53.8	53.8
	48	58.3	58.3
	44	63.6	63.6
	40	70.0	70.0
	36	70.0	70.0
	32	70.0	70.0
108	52	59.8	59.8
	48	64.8	64.8
	44	70.0	70.0
	40	70.0	70.0
	36	70.0	70.0
99	52	70.0	75.2
	48	70.0	81.5
	46	70.0	85.0
96	52	70.0	77.5
	48	70.0	84.0
	44	70.0	85.0
84	52	70.0	85.0

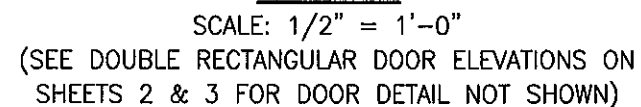
NOTES:

1. LOAD WIDTH IS THE DISTANCE BETWEEN PANEL CENTERLINES.
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL DOOR/FIXED PANEL.
3. SIZE VALUES IN TABLE ARE +/- 1/4"

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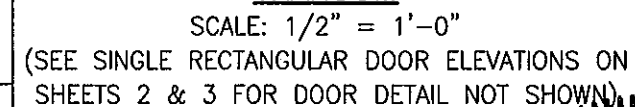


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 10/08/08	
DATE	BY	REVISION DESCRIPTION	NO.
<p>IN-SWING IMPACT WOOD DOORS</p> <p>MANUFACTURER: TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600</p> <p>CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424</p>			
CERTIFICATION	<p>001 27 2011</p> <p>WARREN W. SCHAEFER, P.E. P.E. NO. 44135</p>		
DRAWING NO.	1601	REV.	A
SHEET NO.	7	OF	19



MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(2) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
79 1/16	168	70	70
79 1/16	138	70	(1) 85

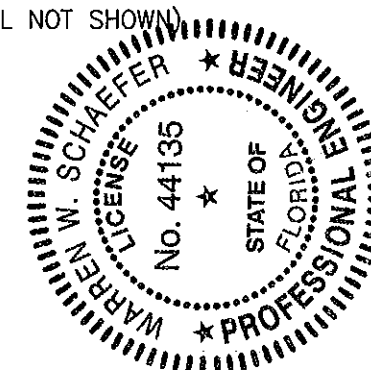
(2) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.



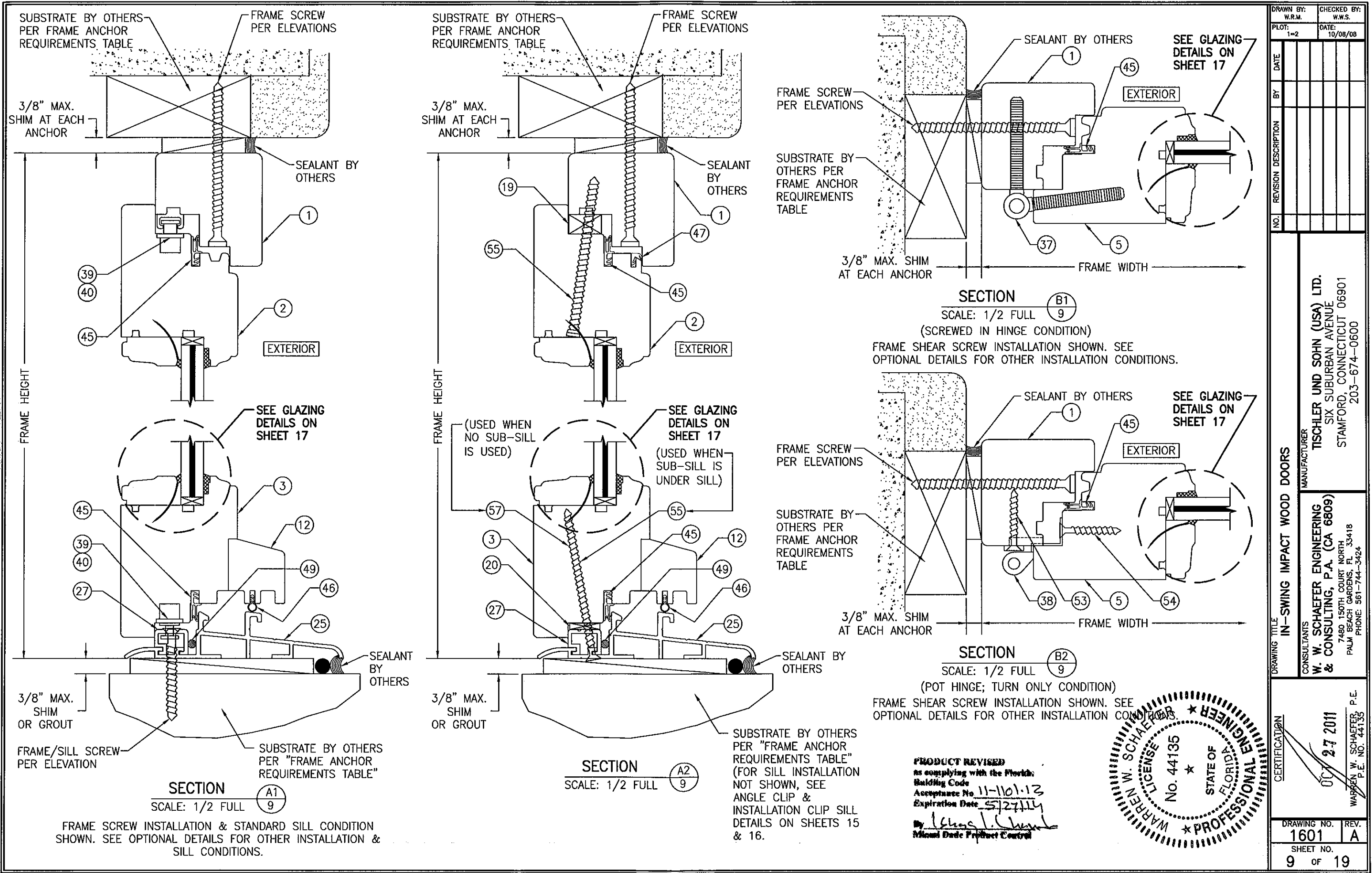
MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(2) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	168	70	70
41 1/4	168	70	(1) 85

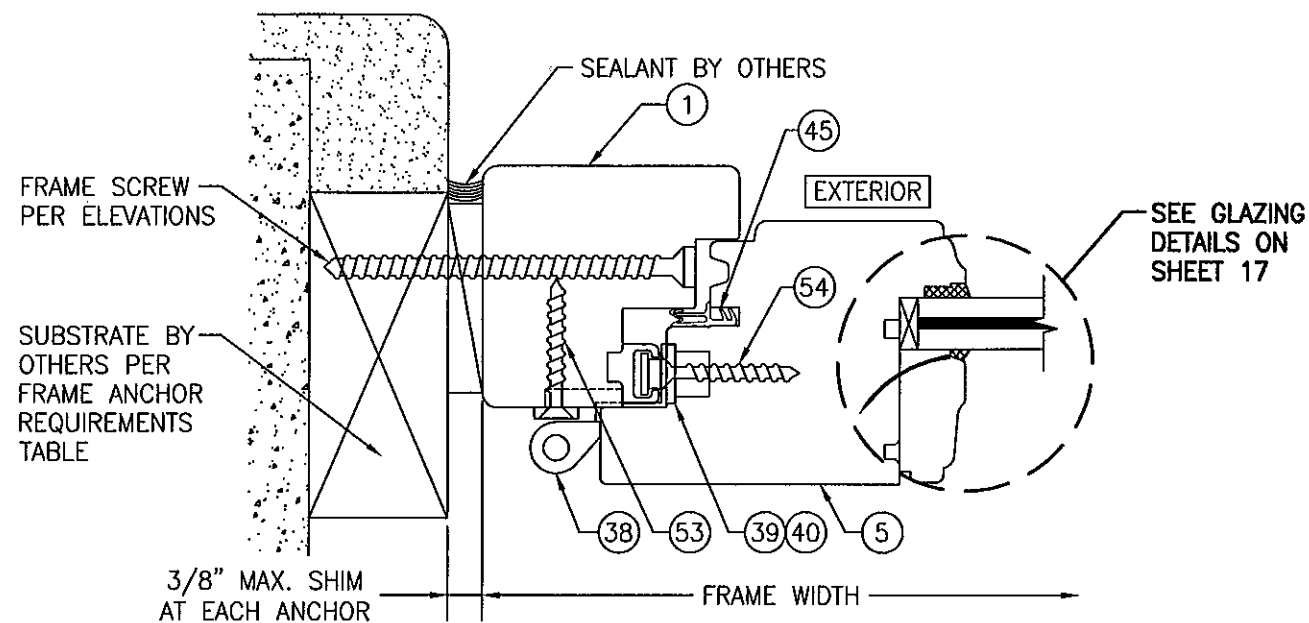
(2) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.

My Gus L. Chan
Miami Dade Product Control

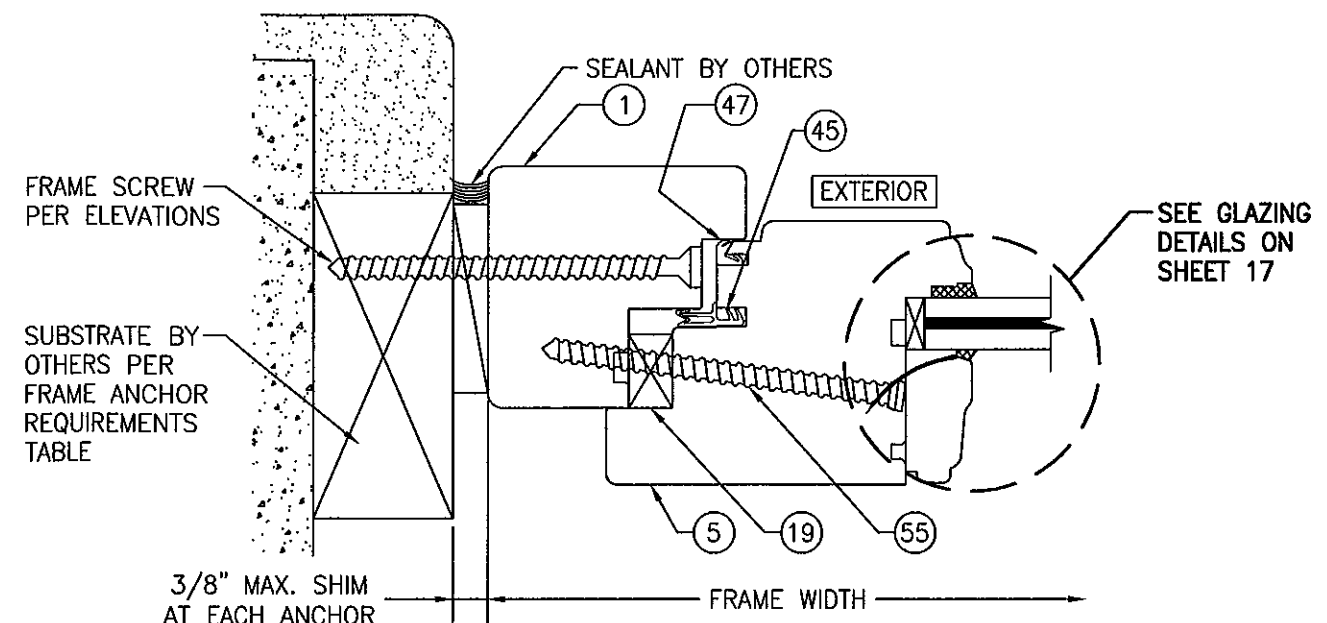


CERTIFICATION _____ OCT 27 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.
1601	A
SHEET NO.	
8	OF 19

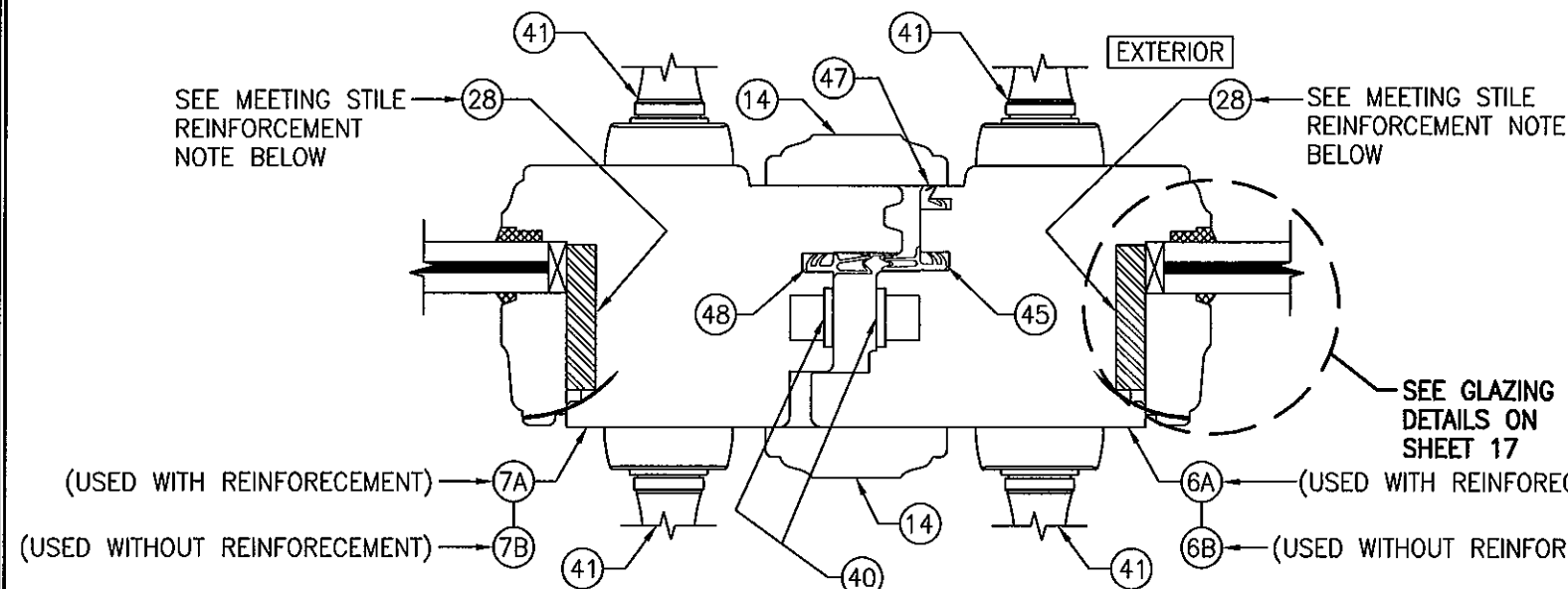




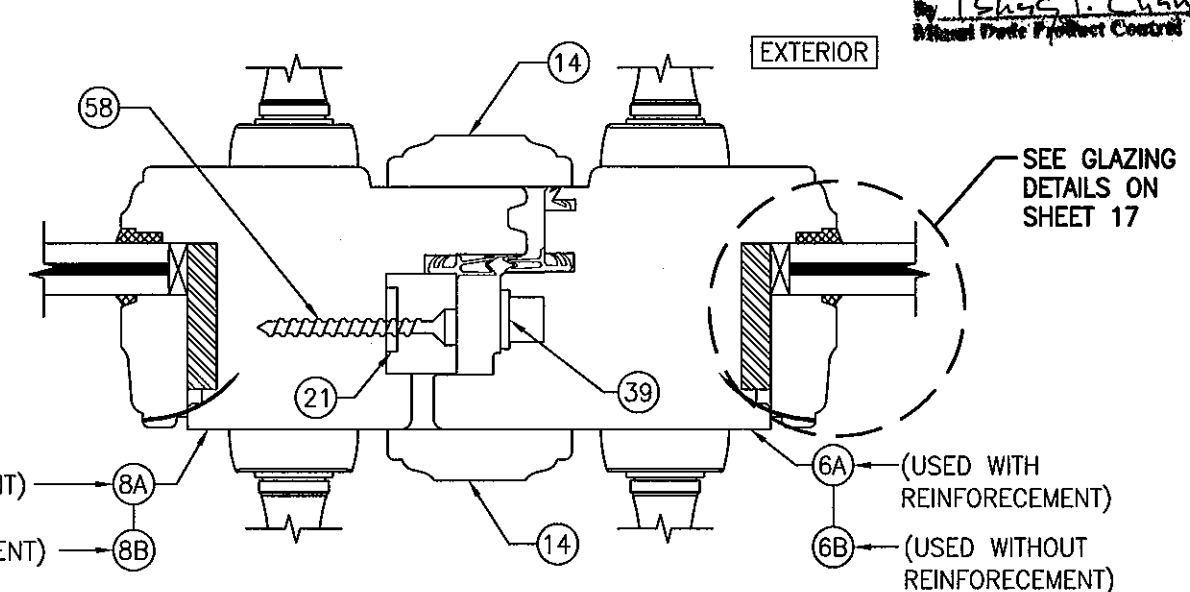
SECTION B3/10
SCALE: 1/2 FULL
(POT HINGE; TILT CONDITION)
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE
OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



SECTION B4/10
SCALE: 1/2 FULL
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE
OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



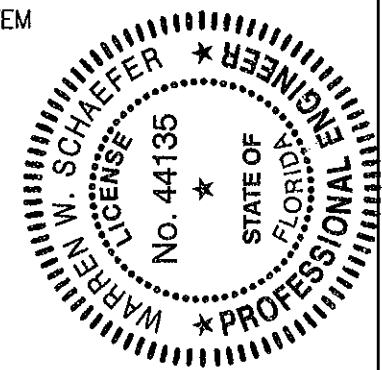
SECTION C1/10
SCALE: 1/2 FULL
MEETING STILE CONDITION WITH SIEGENIA MULTI-POINT LOCK SYSTEM



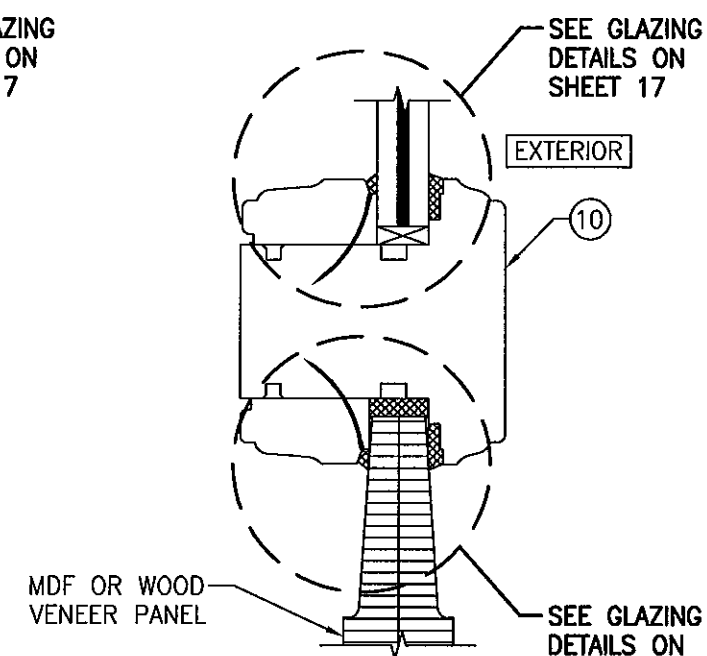
SECTION C2/10
SCALE: 1/2 FULL
MEETING STILE CONDITION WITH KVF MULTI-POINT LOCK SYSTEM
(FOR DETAIL NOT SHOWN, SEE SECTION C1/10)

MEETING STILE REINFORCEMENT NOTE:
REINFORCEMENT IS REQUIRED WHEN ANY ONE OF THE FOLLOWING DOOR CONDITIONS EXISTS.
1. WHEN FRAME HEIGHT IS OVER 99".
2. WHEN ADA SILL IS USED (ALL APPLICABLE FRAME HEIGHTS).
3. WHEN JOB REQUIRED DESIGN PRESSURE IS OVER +/-70 PSF.

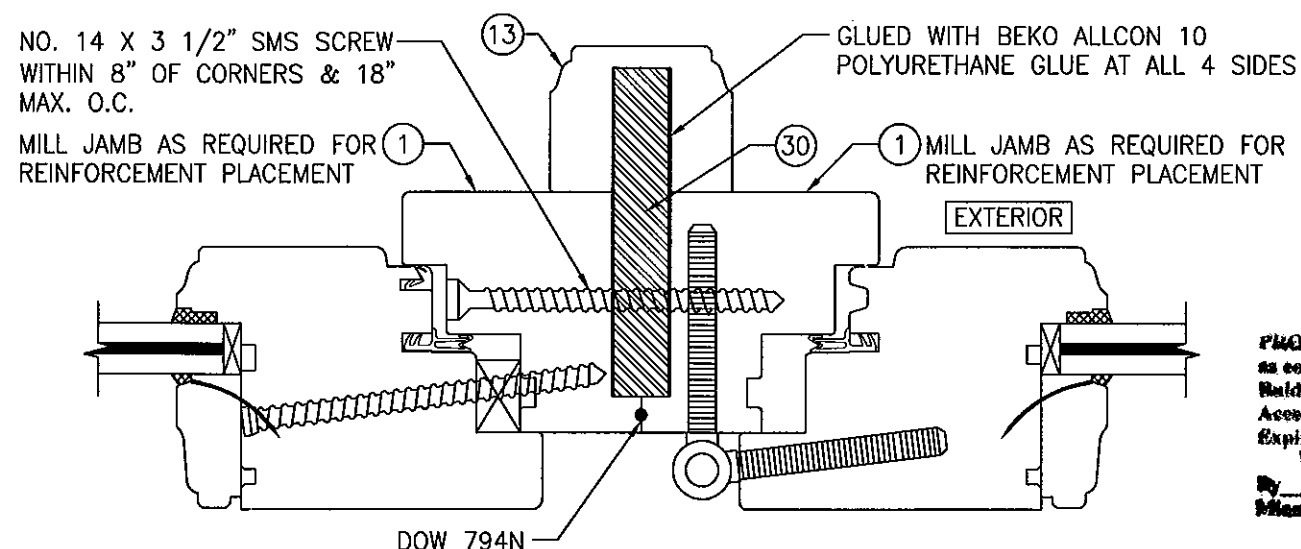
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Expiration Date 5/27/14
By [Signature]
Michael Decker Project Control



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PLOT: 1-2	DATE: 10/08/08
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE IN-SWING IMPACT WOOD DOORS	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600
CERTIFICATION OCT 27 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1601 REV. A SHEET NO. 10 OF 19

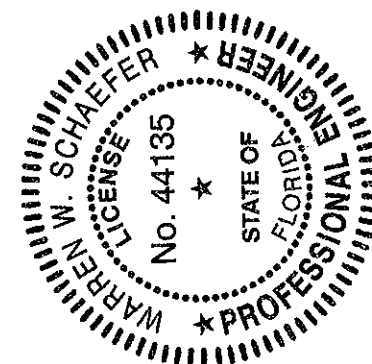


SECTION E2
SCALE: 1/2 FULL 11



SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

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By Ismael L. Chant
Miami Dade Product Council



DRAWING NO. 1601	REV. A	SHEET NO. 11 OF 19	CERTIFICATION OCT 27 2011 WARREN W. SCHAEFER, P.E.	DRAWING TITLE IN-SWING IMPACT WOOD DOORS	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-7424	MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600
				NO. REVISION DESCRIPTION BY DATE	DRAWN BY: W.R.M. PLOT: 1=2	CHECKED BY: W.W.S. DATE: 10/08/08

NO. 14 X 3 1/2" SMS SCREW
WITHIN 8" OF CORNERS & 18"
MAX. O.C.

MILL JAMB AS REQUIRED FOR
REINFORCEMENT PLACEMENT

GLUED WITH BEKO ALLCON 10
POLYURETHANE GLUE AT ALL 4 SIDES

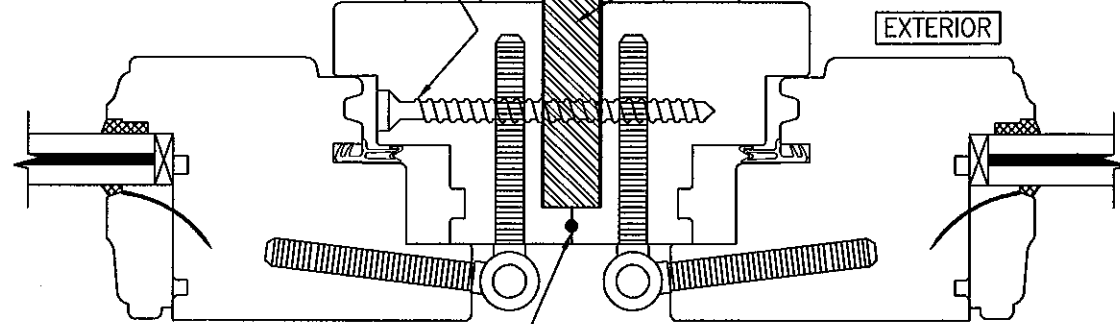
1 MILL JAMB AS REQUIRED FOR
REINFORCEMENT PLACEMENT

30

13

EXTERIOR

DOW 794N



SECTION

G2
12

SCALE: 1/2 FULL

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO. 14 X 3 1/2" SMS SCREW
WITHIN 8" OF CORNERS & 18"
MAX. O.C.

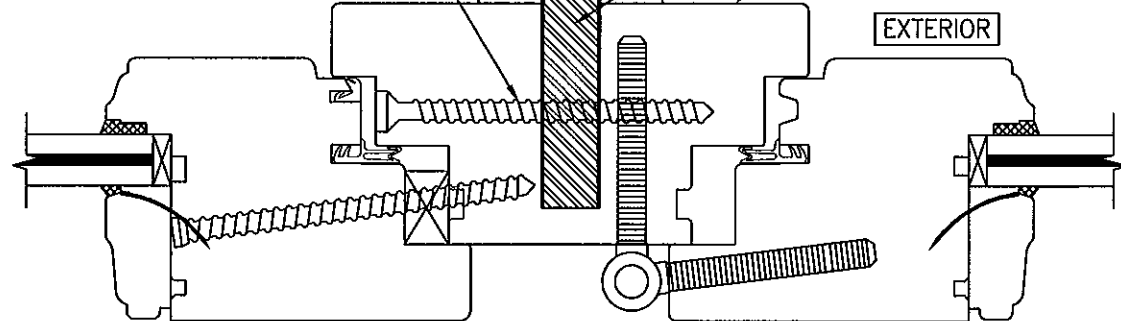
GLUED WITH BEKO ALLCON 10
POLYURETHANE GLUE AT ALL 4 SIDES

30

11 MILL JAMB AS REQUIRED FOR
REINFORCEMENT PLACEMENT

13

EXTERIOR



SECTION

G4
12

SCALE: 1/2 FULL

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO. 14 X 3 1/2" SMS SCREW
WITHIN 8" OF CORNERS & 18"
MAX. O.C.

MILL JAMB AS REQUIRED FOR
REINFORCEMENT PLACEMENT

GLUED WITH BEKO ALLCON 10
POLYURETHANE GLUE AT ALL 4 SIDES

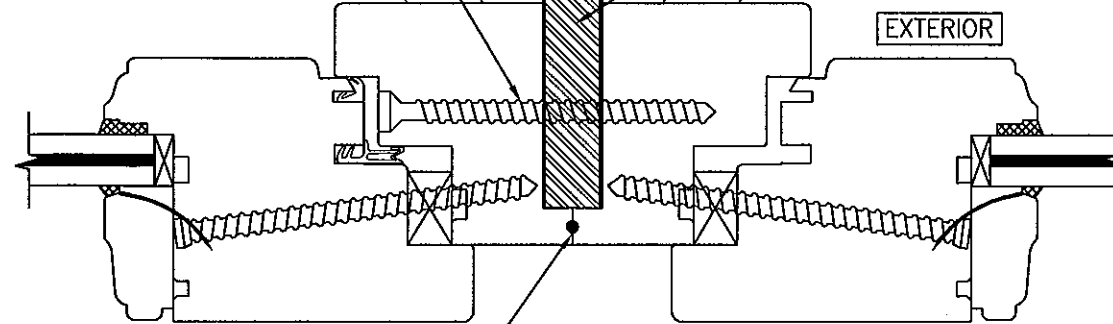
1 MILL JAMB AS REQUIRED FOR
REINFORCEMENT PLACEMENT

30

13

EXTERIOR

DOW 794N



SECTION

G3
12

SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO. 14 X 3 1/2" SMS SCREW
WITHIN 8" OF CORNERS & 18"
MAX. O.C.

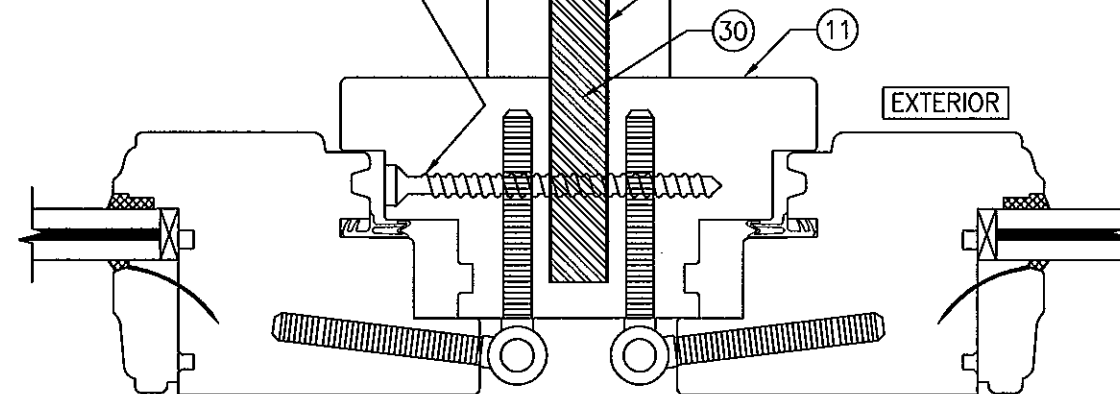
GLUED WITH BEKO ALLCON 10
POLYURETHANE GLUE AT ALL 4 SIDES

30

11

13

EXTERIOR



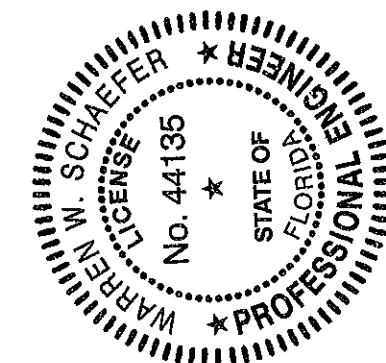
SECTION

G5
12

SCALE: 1/2 FULL

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

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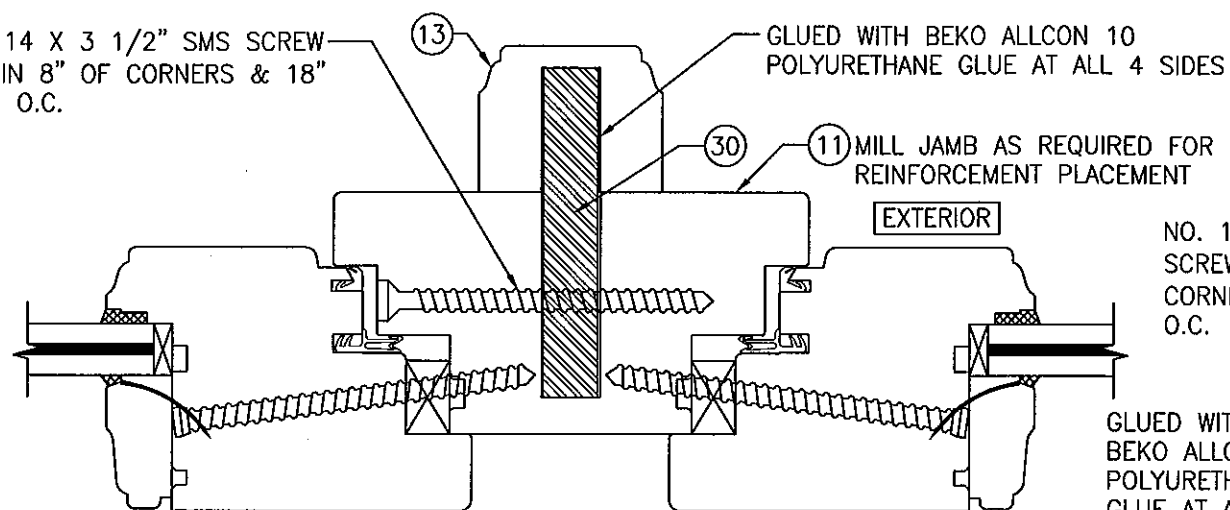


DRAWN BY:	CHECKED BY:
W.R.M.	W.W.S.
PLOT:	DATE:
1-2	10/08/08
DATE	
BY	
REVISION	
DESCRIPTION	
NO.	

DRAWING TITLE	IN-SWING IMPACT WOOD DOORS
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
MANUFACTURER	TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600

CERTIFICATION	OCT 27 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	REV.
1601	A
SHEET NO.	
12 OF 19	

NO. 14 X 3 1/2" SMS SCREW
WITHIN 8" OF CORNERS & 18"
MAX. O.C.



SECTION
SCALE: 1/2 FULL
G6
13

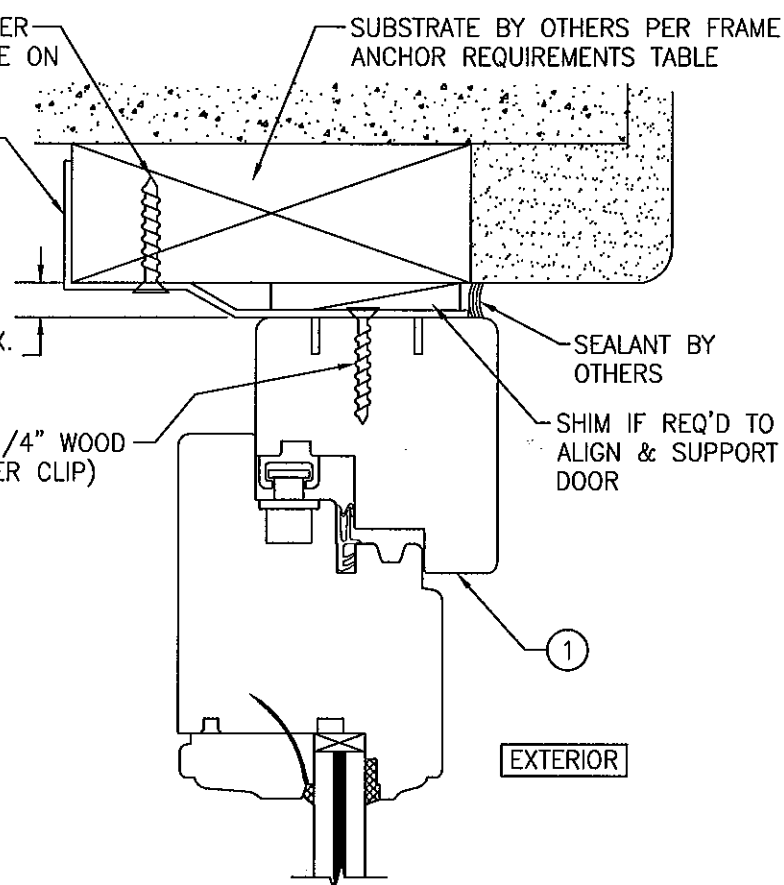
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

INSTALLATION CLIP SCREW PER
ANCHOR REQUIREMENTS TABLE ON
SHEET 1 (1 PER CLIP)

INSTALLATION CLIP PER
ELEVATIONS (MAY
OPTION TO BEND CLIP
AROUND SUBSTRATE OR
EXTEND SUBSTRATE
WITH NO CLIP BEND)

3/8" MAX.
SPACE

NO. 6 X 1 1/4" WOOD
SCREW (1 PER CLIP)



OPTIONAL INSTALLATION CLIP DETAIL

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

GLUED WITH BEKO ALLCON 10
POLYURETHANE GLUE AT ALL 4 SIDES

11 MILL JAMB AS REQUIRED FOR
REINFORCEMENT PLACEMENT

DIRECT GLAZED
WINDOW UNDER
SEPARATE APPROVAL

NO. 14 X 3" SMS
SCREW WITHIN 7" OF
CORNERS & 18" MAX.
O.C.

GLUED WITH
BEKO ALLCON 10
POLYURETHANE
GLUE AT ALL 4
SIDES

MILL MULLION
BAR COVER AS
REQUIRED FOR
REINFORCEMENT
PLACEMENT

DIRECT GLAZED
WINDOW UNDER
SEPARATE APPROVAL

SECTION
SCALE: 1/2 FULL
H1
13

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(OPERABLE DOOR CONDITION SHOW, FIXED PANEL DOOR
IS MULLED THE SAME)

FIXED CASEMENT
WINDOW UNDER
SEPARATE APPROVAL

NO. 14 X 3"
SMS SCREW
WITHIN 7" OF
CORNERS & 18"
MAX. O.C.

GLUED WITH
BEKO ALLCON 10
POLYURETHANE
GLUE AT ALL 4
SIDES

DOW 794N

REINFORCEMENT IS
OPTIONAL & NOT
REQUIRED WHEN
TRANSOM IS OVER A
SINGLE DOOR.

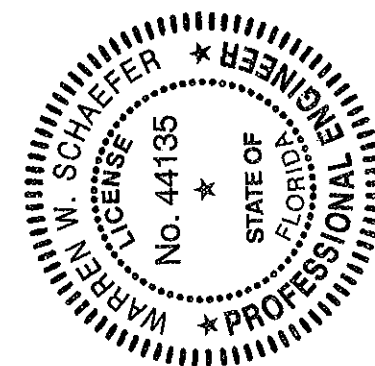
1 MILL HEAD AS
REQUIRED FOR
REINFORCEMENT
PLACEMENT

EXTERIOR

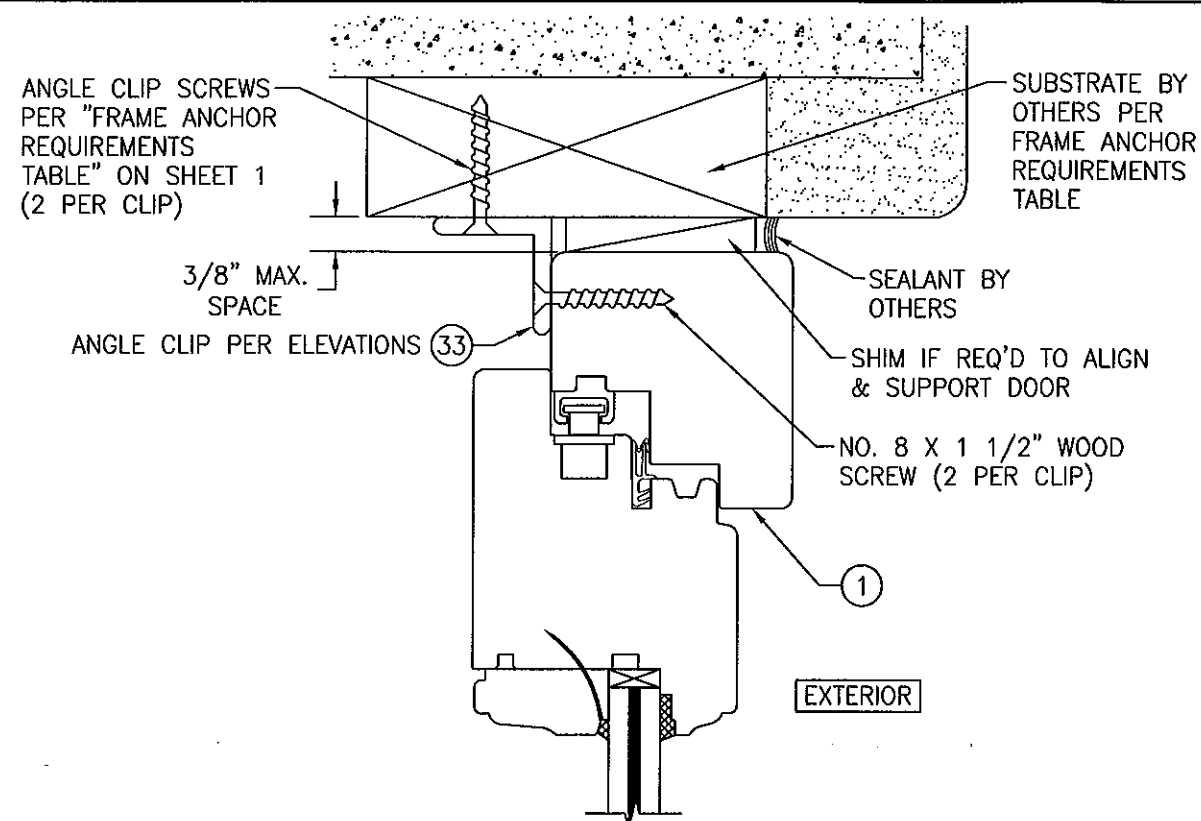
SECTION
SCALE: 1/2 FULL
H2
13

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(OPERABLE DOOR CONDITION SHOW, FIXED PANEL DOOR
IS MULLED THE SAME)

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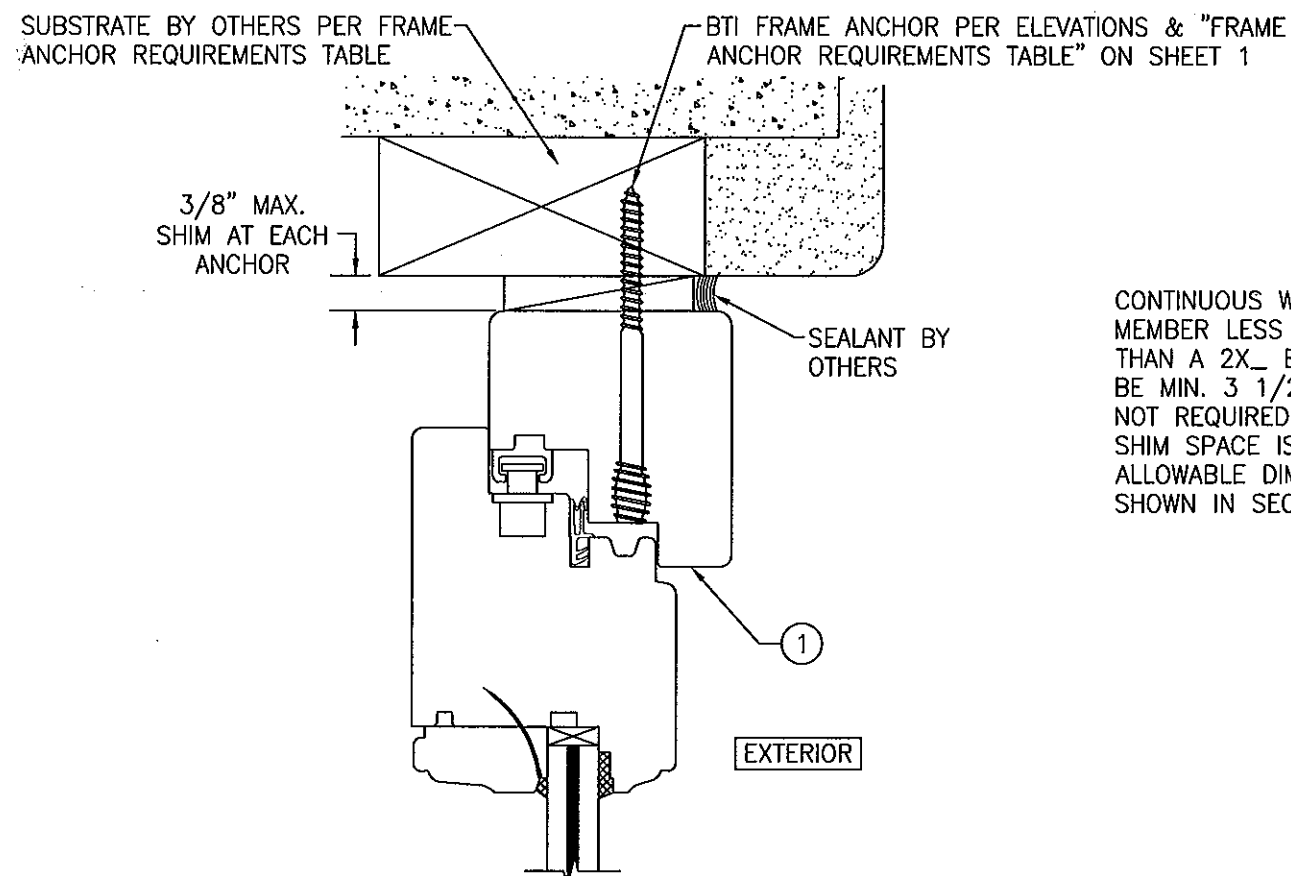


DRAWING NO. 1601	REV. A	SHEET NO. 13 OF 19	CERTIFICATION OCT 27 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING TITLE IN-SWING IMPACT WOOD DOORS		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600			
				DRAWN BY: W.R.M.		CHECKED BY: W.W.S.					
PLOT: 1=2		DATE: 10/08/08		NO.		REVISION DESCRIPTION		BY		DATE	



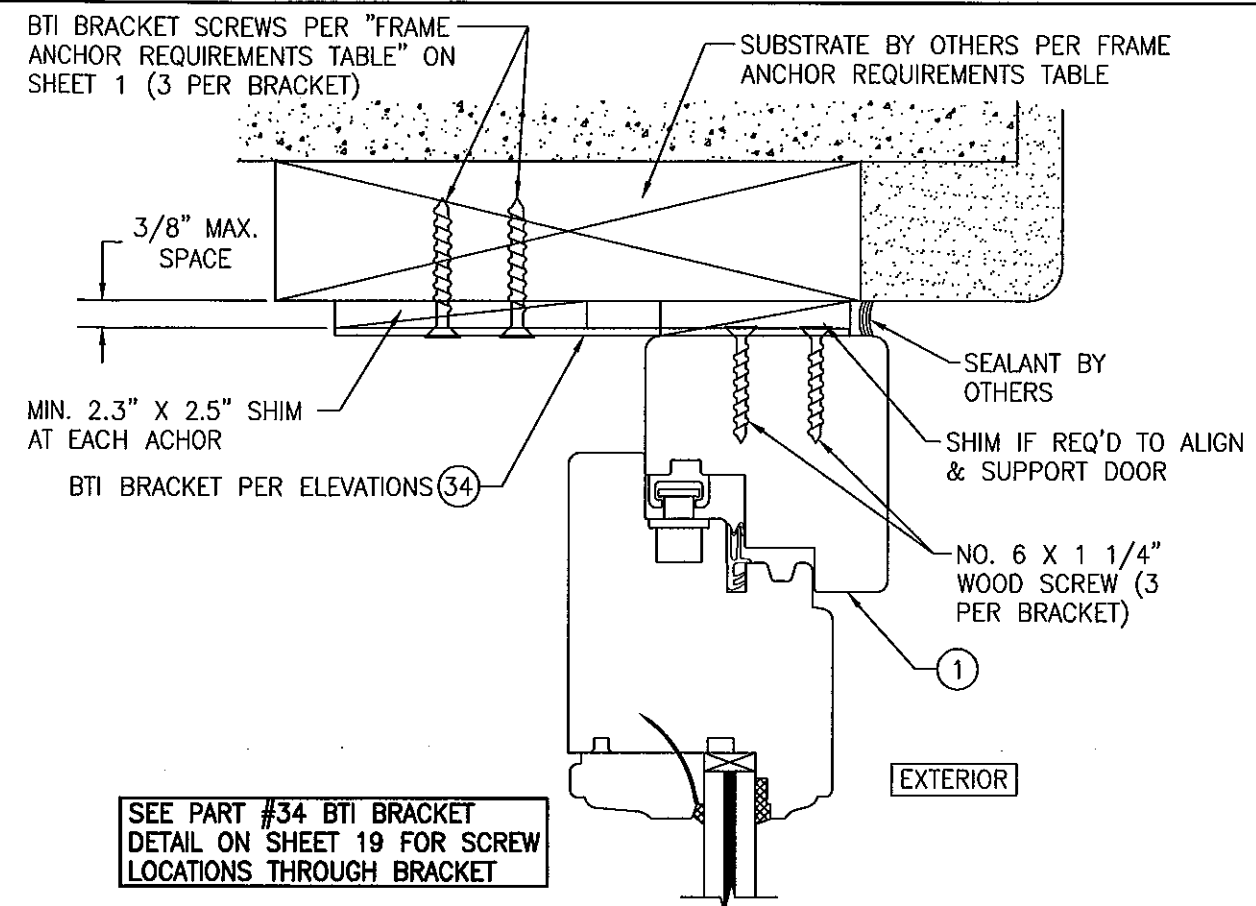
OPTIONAL INSTALLATION ANGLE CLIP DETAIL

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



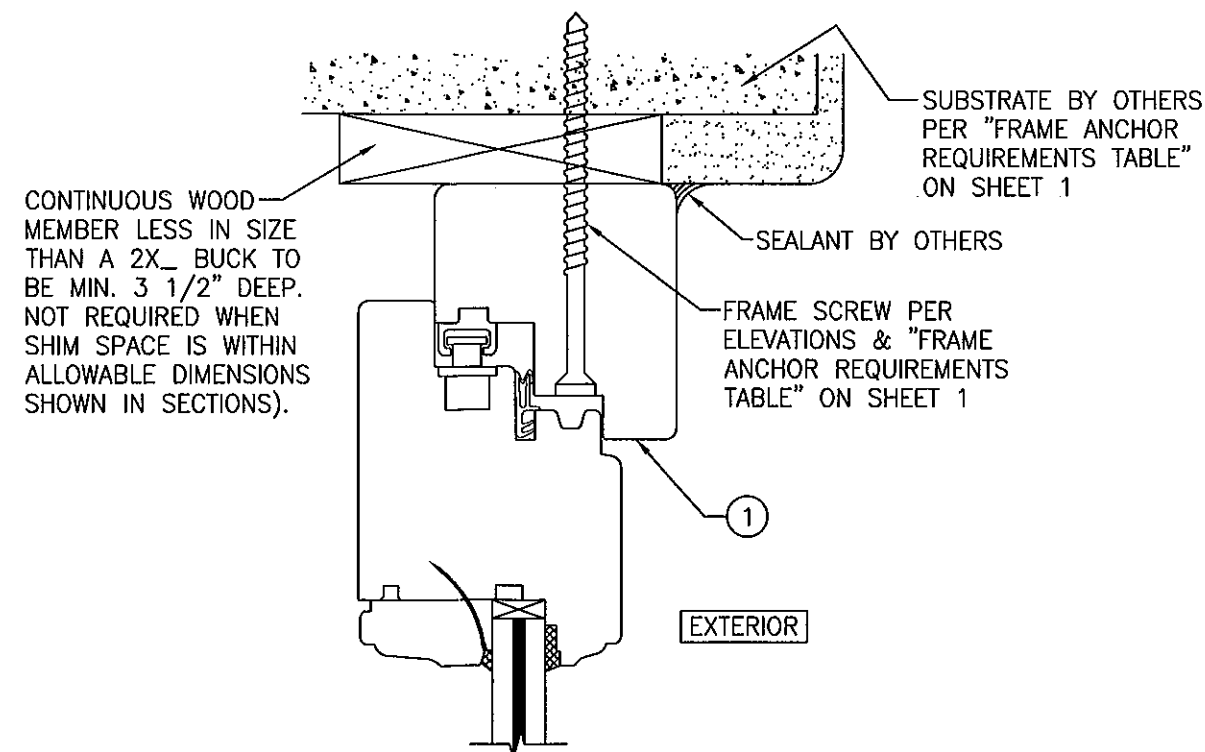
OPTIONAL BTI SCREW DETAIL

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION BTI BRACKET DETAIL

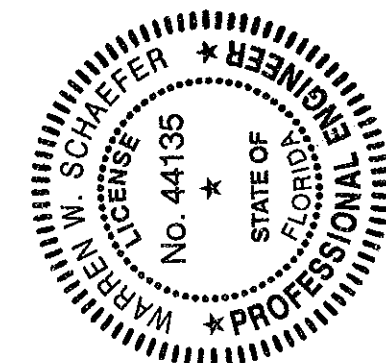
(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

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Expiration Date 5/27/14
By [Signature]
Miami Dade Product Control

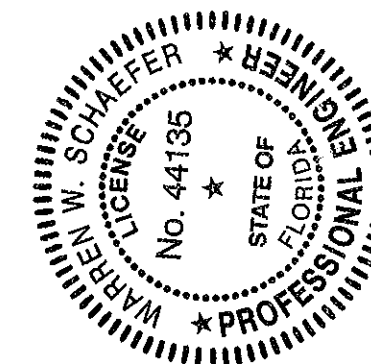
[illegible]



(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NOTE: THIS ADA SILL WAS NOT TESTED FOR WATER INFILTRATION RESISTANCE & THEREFORE IS ACCEPTABLE ONLY WHEN INSTALLED IN NONHABITABLE AREAS WHERE THE DOOR ASSEMBLY & AREA ARE DESIGNATED TO ACCEPT WATER INFILTRATION OR IF INSTALLED BELOW AN OVERHANG WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR MORE THAN 1 (OH RATIO = OH LENGTH/OH HEIGHT).

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1101.13
Expiration Date 5/27/14
By Ishag L. Chay
Miami Dade Product Control

[illegible]

DOORS

MANUFACTURER

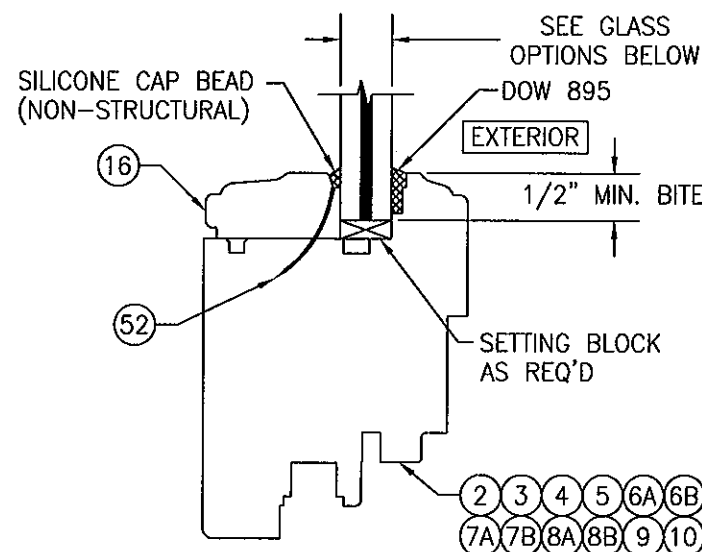
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

DRAWING TITLE
IN-SWING IMPACT WOOD

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
OCT 27 2011
WARREN W. SCHAEFER, P.E.

DRAWING NO.	REV
1601	A
SHEET NO.	
16	OF 19

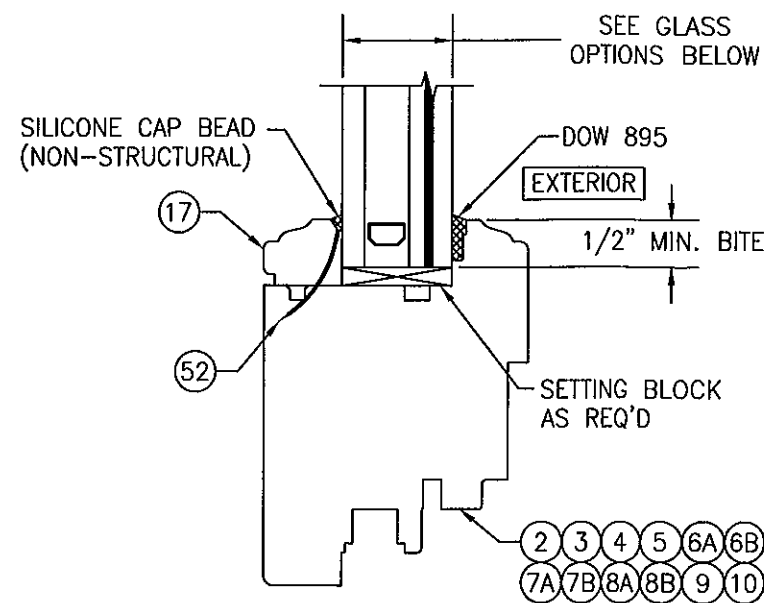


NON-I.G. GLAZING DETAIL
GLASS OPTIONS 1, 2 & 3

GLASS OPTION 1: 9/16" LAMINATED GLASS (1/4" AN./0.09" SOLUTIA SALFEX IIIIG PVB/1/4" AN.)

GLASS OPTION 2: 9/16" LAMINATED GLASS (1/4" H.S./0.075" SOLUTIA VANCEVA/1/4" H.S.)

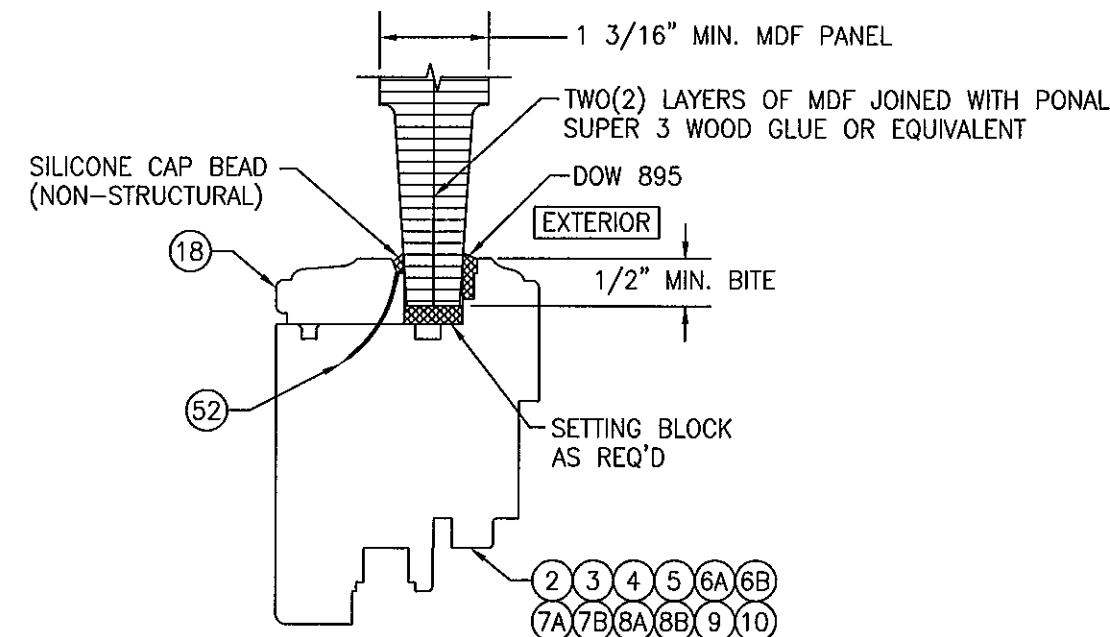
GLASS OPTION 3: 9/16" LAMINATED GLASS (1/4" AN./0.075" SOLUTIA VANCEVA/1/4" AN.)



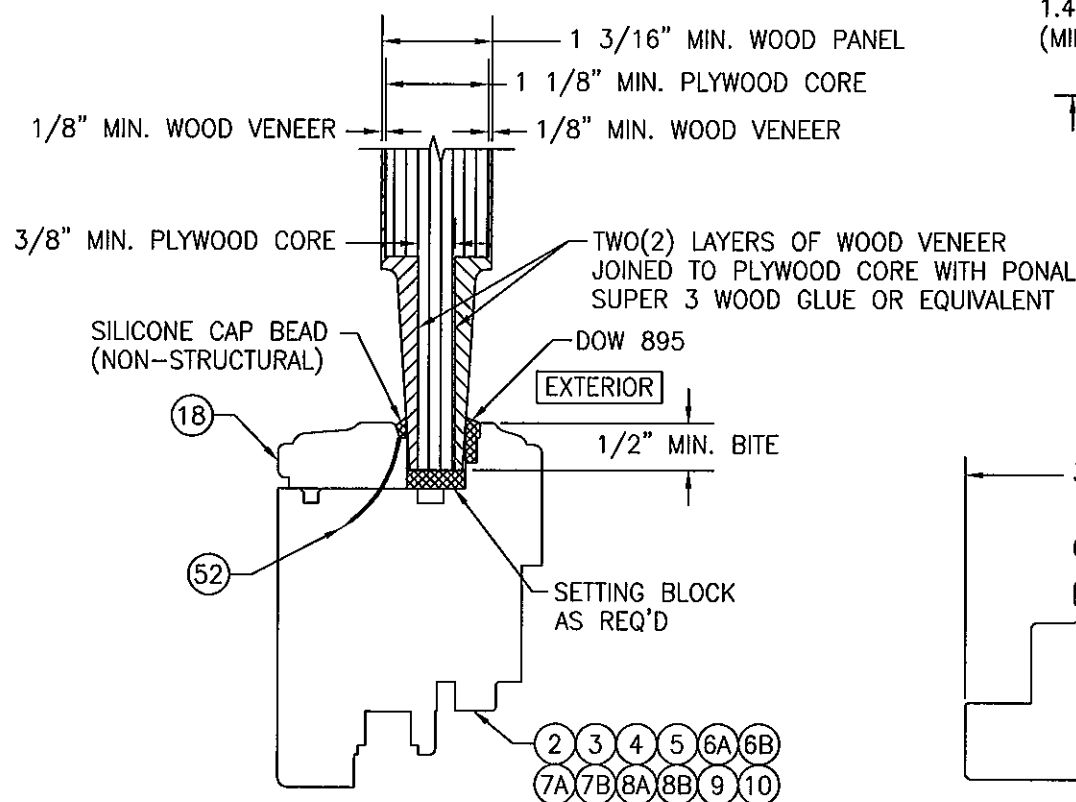
I.G. GLAZING DETAIL
GLASS OPTIONS 4, & 5

GLASS OPTION 4: 1 3/16" LAMINATED I.G. (3/16" AN./0.09" SOLUTIA SALFEX IIIIG PVB/3/16" AN./1/2" AIR SPACE/1/4 TEMP.)

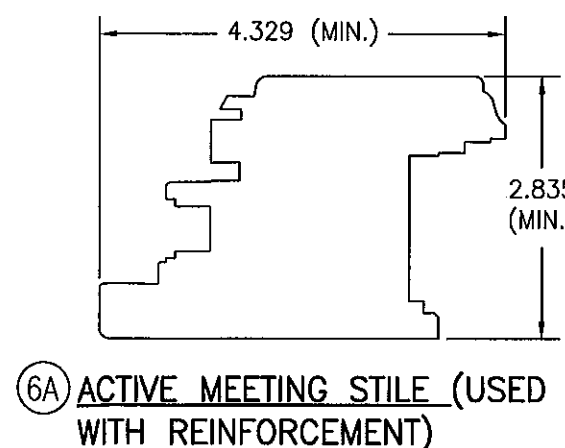
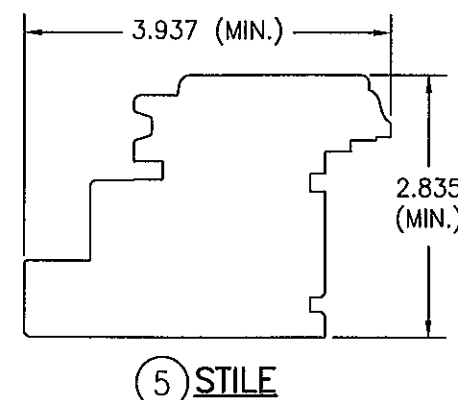
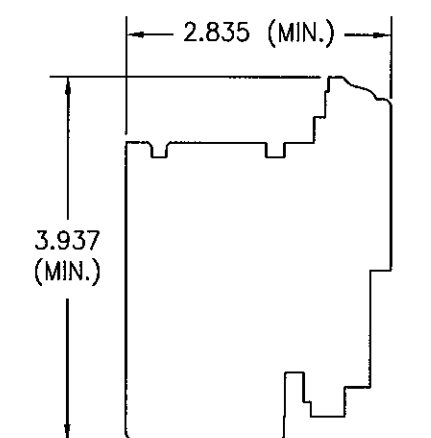
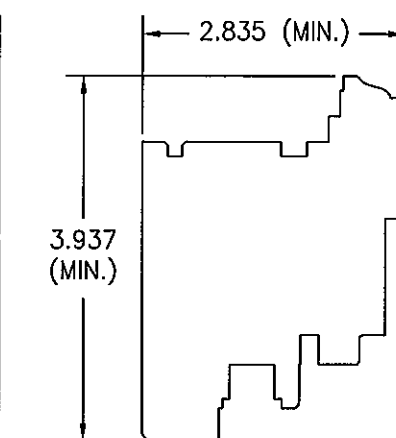
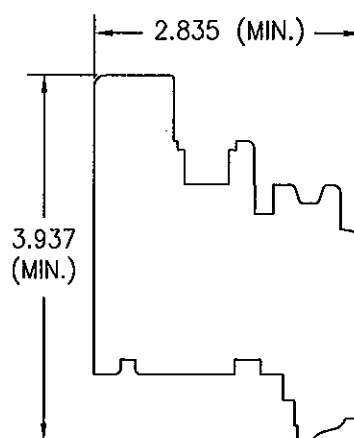
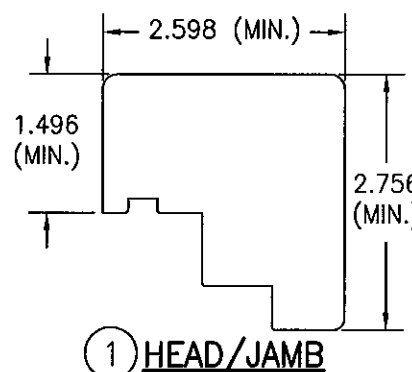
GLASS OPTION 5: 1 3/16" LAMINATED I.G. (3/16" H.S./0.075" SOLUTIA VANCEVA/3/16" H.S./1/2" AIR SPACE/1/4 TEMP.)



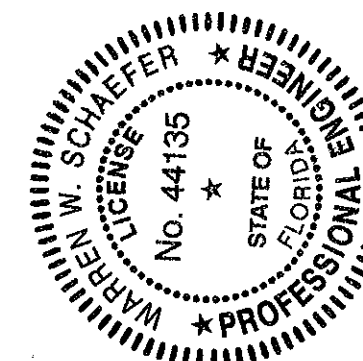
MDF PANEL GLAZING DETAIL



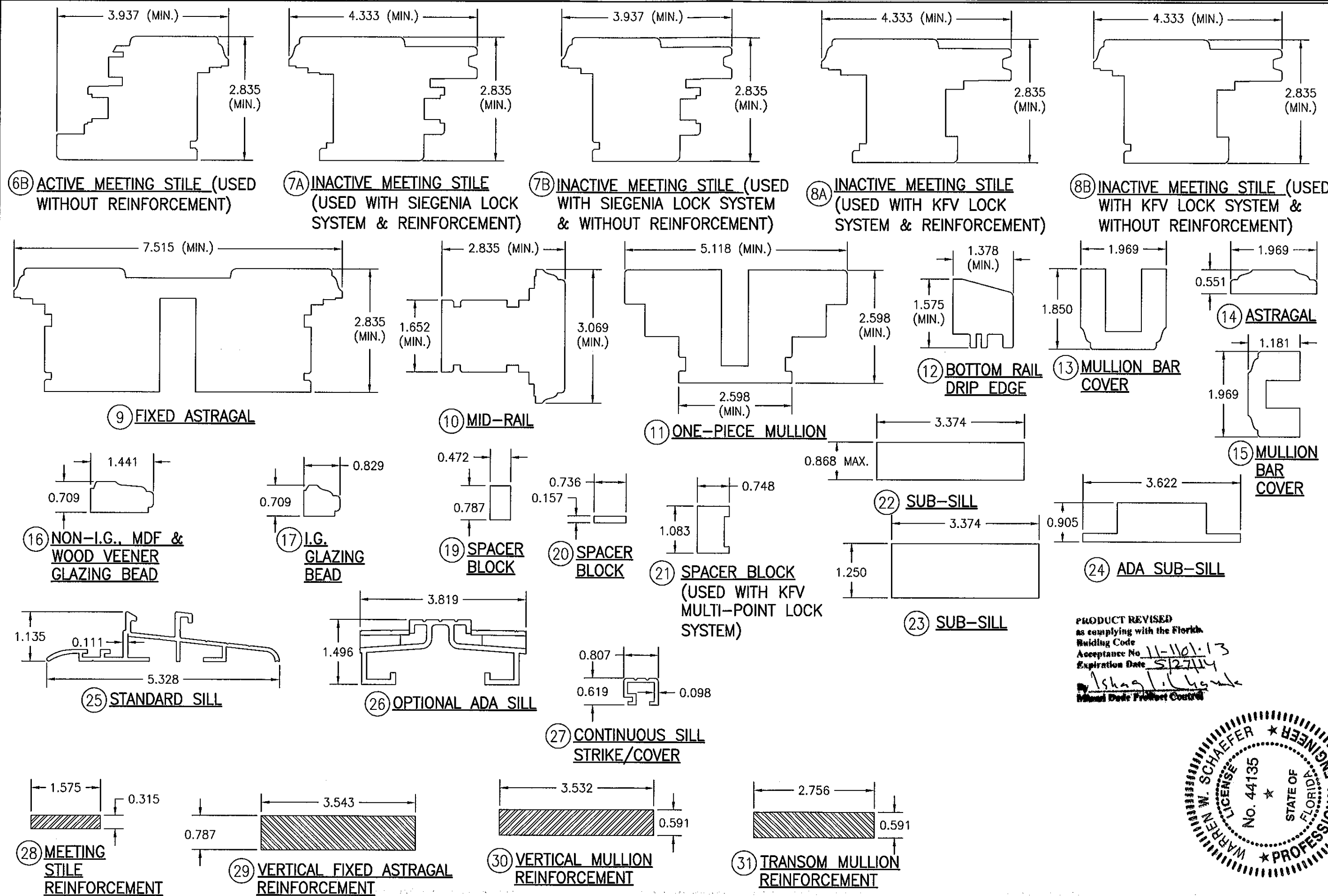
WOOD VENEER PANEL GLAZING DETAIL



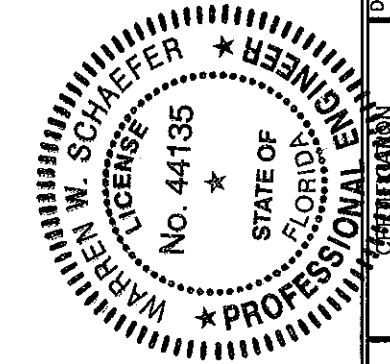
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1101.13
Expiration Date 5/27/14
By: [Signature]
Official Date Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 10/08/08
DATE	BY
REVISION DESCRIPTION	NO.
IN-SWING IMPACT WOOD DOORS MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600 CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	OCT 27 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1601	REV. A
SHEET NO. 17	OF 19



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1101-13
Expiration Date 5/27/14
by Ishag, L. H. H. H.
Initial Date: Product Control

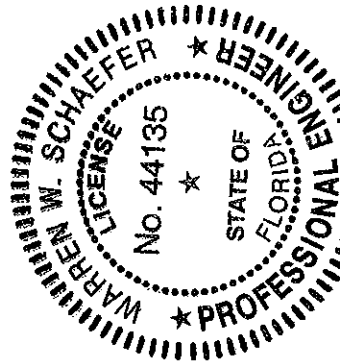
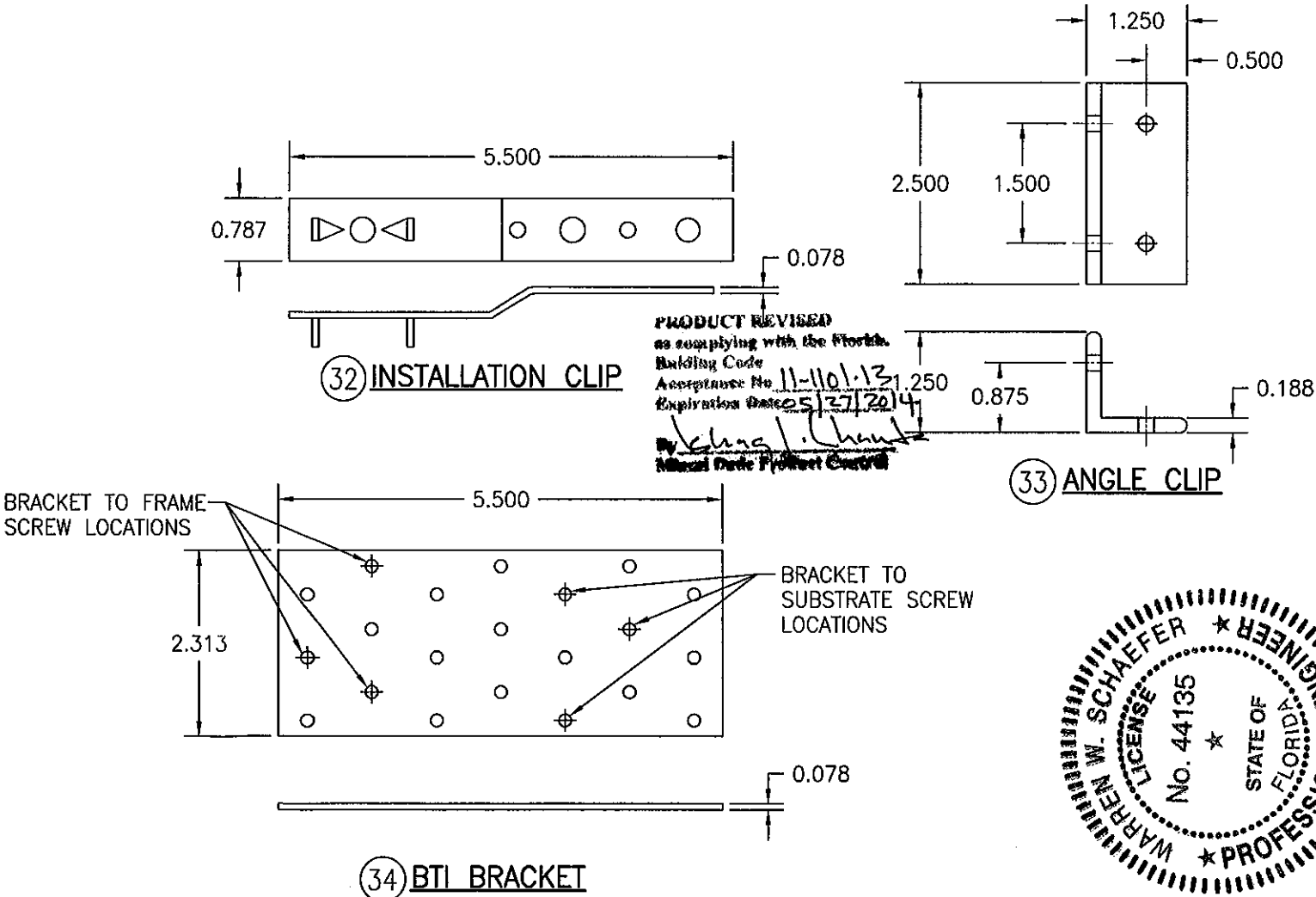


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
DATE	BY
REVISION	DESCRIPTION
NO.	
DRAWING TITLE IN-SWING IMPACT WOOD GLAZED PANEL DOORS	
MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
OCT 27 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1601	REV. A
SHEET NO. 18	OF 19

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	HEAD/JAMB	MAHOGANY
2	TOP RAIL	MAHOGANY
3	STANDARD BOTTOM RAIL	MAHOGANY
4	BOTTOM RAIL (USED WITH ADA THRESHOLD)	MAHOGANY
5	STILE	MAHOGANY
6A	ACTIVE MEETING STILE (USED WITH REINFORCEMENT)	MAHOGANY
6B	ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)	MAHOGANY
7A	INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)	MAHOGANY
7B	INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT)	MAHOGANY
8A	INACTIVE MEETING STILE (USED WITH KJV LOCK SYSTEM & REINFORCEMENT)	MAHOGANY
8B	INACTIVE MEETING STILE (USED WITH KJV LOCK SYSTEM & WITHOUT REINFORCEMENT)	MAHOGANY
9	FIXED ASTRAGAL	MAHOGANY
10	MID-RAIL	MAHOGANY
11	ONE-PIECE MULLION	MAHOGANY
12	BOTTOM RAIL DRIP EDGE	MAHOGANY
13	MULLION BAR COVER	MAHOGANY
14	ASTRAGAL	MAHOGANY
15	MULLION BAR COVER	MAHOGANY
16	NON-I.G., MDF & WOOD VEENER GLAZING BEAD	MAHOGANY
17	I.G. GLAZING BEAD	MAHOGANY
19	SPACER BLOCK	MAHOGANY
20	SPACER BLOCK	MAHOGANY
21	SPACER BLOCK (USED WITH KJV MULTI-POINT LOCK SYSTEM)	MAHOGANY
22	SUB-SILL	MAHOGANY
23	SUB-SILL	MAHOGANY
24	ADA SUB-SILL	MAHOGANY
25	STANDARD SILL	BRONZE
26	OPTIONAL ADA SILL	BRONZE
27	CONTINUOUS SILL STRIKE/COVER	BRONZE
28	MEETING STILE REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
29	VERTICAL FIXED ASTRAGAL REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
30	VERTICAL MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
31	TRANSOM MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
32	INSTALLATION CLIP	GALVANIZED 54 KSI STEEL
33	ANGLE CLIP	6061-T6 ALUMINUM
34	BTI BRACKET	GALVANIZED 54 KSI STEEL
HARDWARE		
37	SCREWED IN HINGE	74mm X 16mm GENIATEC GMBH; FE 74WF 120mm X 16mm GENIATEC GMBH; TUE12OWF 85mm X 20mm SIMONS BAKA; C1-20 130mm X 15mm ANUBA; 515 SM 130mm X 18mm ANUBA; 518 SM
38	POT HINGE	BY: SIEGENIA AUBI KG TYPE: SI
39	MULTI-POINT LOCK SYSTEM	BY: KJV: STRAIGHT SHOOT
40	MULTI-POINT LOCK SYSTEM	BY: SIEGENIA AUBI KG TYPE: MUSHROOM
41	HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
SEALS & SEALANTS		
45	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
46	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
47	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
48	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
49	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: WEGNER
FASTENERS		
52	0.06" X 1.26" S.S. CURVED NAIL	4" FROM CORNERS & 12" MAX. O.C.
53	0.18" X 1.57" WOOD SCREW	3 PER HINGE INTO STILE
54	0.18" X 1.57" WOOD SCREW	4 PER HINGE INTO JAMB
55	0.30" X 3.94" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
57	0.24" X 3.74" WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
58	0.18" X 2" WOOD SCREW	WITHIN 6" OF ENDS & 17" MAX. O.C.
59	0.136" X 1.26" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
60	0.136" X 1.50" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
61	0.11" X 0.87" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.

NOTE: WOOD USED IN TESTING WAS SIPO MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.62 AND A MODULUS OF ELASTICITY OF E = 1,600,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.62 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO SELECT.



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PLOT: 1=2	DATE: 10/08/08
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE IN-SWING IMPACT WOOD DOORS	
MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424	
CERTIFICATION 007/27 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1601	REV. A
SHEET NO. 19 OF 19	